

**DEPARTMENT OF THE ARMY
DEVENS RESERVE FORCES TRAINING AREA
Ayer, Massachusetts 01432-4424
9 January 2003**

**Training
RANGES, TRAINING FACILITIES, AND TRAINING AREAS**

HISTORY: This is the third publication of this regulation under the Devens Reserve Forces Training Area. This publication supersedes the edition dated 21 September 1998.

SUMMARY. This regulation establishes policies and procedures governing the operation of Devens Reserve Forces Training Area ranges, training facilities and training areas.

APPLICABILITY. Provisions of this regulation apply to all users of ranges, training facilities and training areas controlled and operated by Devens Reserve Forces Training Area.

PROPONENT AND EXCEPTION POLICY. The Director of Plans and Training (DPT) is the proponent of this regulation. The DPT has the authority to approve exceptions to this regulation that are consistent with safe training.

ARMY MANAGEMENT CONTROL PROCESS. This regulation contains management control provisions, but does not identify key management controls that must be evaluated.

SUPPLEMENTATION. Supplementation of this regulation is prohibited without prior written approval from the DPT, ATTN: AFRC-FAD-RC, Ayer, MA 01432-5409.

SUGGESTED IMPROVEMENTS. Users are invited to send comments and suggested improvements on DA Form 2028 (Recommended Changes to Publications and Blank Forms) directly to Commander, Devens Reserve Forces Training Area, ATTN: AFRC-FAD-RC, Ayer, MA 01432-5409.

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CHAPTER 1. GENERAL

1-1. Purpose. The purpose of this regulation is to provide guidance and direction for the safe use of the Devens Reserve Forces Training Area's (RFTA) training facilities by:

- a. Prescribing the procedures for scheduling use of ranges, facilities, and training areas.
- b. Prescribing responsibilities and procedures for safe and environmentally sound use of training facilities.
- c. Listing the capabilities, limitations, and any special requirements of available training facilities.

1-2. Definitions. Special terms used in this regulation are explained in Appendix I.

1-3. Responsibilities.

a. The Devens RFTA Commander has responsibility for the overall operation of Devens RFTA to include the immediate supervision, control, coordination, and safety of all Devens RFTA facilities.

b. The Director of Plans and Training is the primary advisor to the Devens RFTA Commander on all matters concerning the safe, efficient utilization of Devens RFTA training facilities. Specific responsibilities include:

- (1) Publication of the weekly Projected Training Report.
- (2) Maintenance of safety data, to include files and overlays.
- (3) Overall responsibility for Range Control operations to include scheduling of units, utilization of training facilities, maintenance of training facilities, and range development.

c. The Devens RFTA Range Control Officer (RCO) is the primary representative of the Devens RFTA Commander at Range Control. Specific responsibilities include:

- (1) Issuing and clearing of training facilities.
- (2) Range Communications.
- (3) Coordination with using units.
- (4) Monitoring units on the ranges or in the training areas to ensure compliance with this regulation.
- (5) Resolution of conflicts.

d. The Devens RFTA Safety Management Officer is responsible for:

- (1) Assisting commanders by reviewing Field Training Exercise (FTX) plans, documents, and Operating Procedures.
- (2) Providing inspection services during training.
- (3) Monitoring training to ensure safe practices are followed.
- (4) Providing assistance in the completion of DA Form 285-AB-R, Abbreviated Ground Accident Report.
- (5) Assisting commanders in preparing risk assessments.

1-4. Scheduling.

a. Requests for ranges, training areas, facilities, and airspace.

(1) All units, regardless of branch of service, will submit requests for ranges/training facilities/areas directly to Range Control. Requests will be submitted on Devens RFTA Form 11, (See Appendix H for sample) or via the computerized Range Facility Management Support System (RFMSS). RFMSS is the preferred method.

(2) Airspace requests will be submitted on Devens RFTA Form 11 to Range Control not later than fourteen (14) working days prior to the date required.

(3) Submission of requests does not constitute approval. Approval authority for all requests for ranges, training areas, facilities on South Post and airspace resides solely with Range Control. Approval should be verified by phone, facsimile, or by using the RFMSS scheduling system.

(4) Requests for demolition training must be submitted through the Devens RFTA Directorate of Public Works (DPW) Environmental Division (ED) for approval of explosives and targets before scheduling. Range Control will not approve any demolition training until approval is received in writing from DPW-ED.

(5) Addresses for submission of requests are:

For Range Control:

COMMANDER, DEVENS RESERVE FORCES TRAINING AREA
ATTN: AFRC-FAD-RC-R
57 QUEENSTOWN STREET, UNIT #9
AYER, MA 01432-5409
Commercial: (978) 796-2723/2155
DSN: 256-2723/2155

FAX: 2380

For DPW-ED:

COMMANDER, DEVENS RESERVE FORCES TRAINING AREA
ATTN: AFRC-FAD-PWE-M
30 QUEBEC STREET, UNIT #10
AYER, MA 01432-4479
Commercial: (978) 796-2393/3784
DSN: 256-2393/3784
FAX: 2557

b. Units shall submit requests no later than 14 days prior to the start of training. Order of precedence is:

(1) Reserve components for annual training (AT) and Department of the Army schools scheduling by a Program of Instruction (POI).

(2) Reserve components for IDT weekends (Saturday and Sunday only).

(3) Other scheduled reserve or active duty training on a first-come, first-serve basis.

(4) Reserve Officer Training Corps (ROTC)/Junior ROTC training.

(5) Federal, state, and local law enforcement agencies.

(6) Authorized civilian organizations and military contractors for research and development.

c. Requests received by Range Control less than 14 days prior will be based on availability and other factors that may affect training, i.e., Range Control staffing, planned construction, etc. Notify Range Control of cancelled training as soon as possible.

d. Unit reconnaissance of scheduled area may be conducted at any time after coordination with Range Control. Units are encouraged to do so.

e. Physical training may be conducted on South Post by small units. Such training shall not exceed two (2) hours and must be coordinated with Range Control. Range Control reserves the right to limit the number of units conducting physical training at any one time.

f. Driver training using the South Post road network must be scheduled with Range Control the same as any training facility.

g. Units that fail to sign for their requested area within two hours of the scheduled time, or fail to notify Range Control that they will be late, will be canceled and reported as a no show.

h. Most training facilities are located within training areas. Example: Facility 7, the Nuclear, Biological Chemical (NBC) Chamber, is located in Training Area 14A. Scheduling the NBC chamber does not convey ownership of the entire training area to the using unit. If a unit wants to use a facility within a training area that is occupied by another unit, it is responsible for obtaining a co-use agreement from the unit(s) owning the training area before Range Control will schedule the facility. Point of contact (POC) for scheduled units may be obtained from Range Control. Each unit will provide POC telephone numbers and addresses for such coordination.

i. "Blanket" requests will not be honored. All requests will specify the unit to use the area and not just the higher headquarters.

1-5. Training Facility/Area Occupation and Clearance.

a. General. There are approximately 3600 acres available for bivouacs and maneuvers on South Post. A list and description of the areas are included in this regulation (See Appendix B). Most areas are suitable for combat support, combat service support, and infantry operations. Training areas are identified by number and sub-divided alphabetically such as 13A, 13B, 13C.

b. The Officer-in-Charge (OIC) will sign for the range(s), training area(s) and training facilities at Range Control before the unit occupies the area. Once the unit has signed for the area it is considered occupied and use by others is denied. If a unit does not intend to use an area scheduled, it must be released for use by others.

c. Once a unit accepts an area, it is responsible for the condition of the area upon clearing. Units using areas they do not schedule or sign for will be responsible for clearing those areas also.

d. The entire area will be cleared whether used or not. Coordinate with Range Control for a clearing time and location to meet a unit representative. Allow at least two hours prior to desired departure time. Be ready when the Range Inspector arrives because the inspector will not wait. A checklist to facilitate clearance is contained in this regulation. UNITS WILL CONDUCT SPRING/FALL CLEANUP OF AREAS/RANGES AS DIRECTED BY RANGE CONTROL.

e. No permanent barricades will be constructed without Range Control permission. All barricades, wire, or other obstructions, will be removed when training is completed and before the area will be cleared. Common use roads or trails will not be blocked. RANGE CONTROL, SAFETY, MILITARY POLICE ON DUTY, DOD POLICE, PHYSICAL SECURITY, AND ENVIRONMENTAL PERSONNEL WILL NOT BE DENIED ACCESS TO ANY RANGE, TRAINING AREA, OR TRAINING FACILITY AND ARE NOT TO BE CHALLENGED BY USE OF PASSWORDS.

f. All wire of any type will be removed. Installation of wire communication lines will be in accordance with (IAW) TC 24-20. No attempt will be made to tap existing telephone lines or other utilities. CLIMBING UTILITY POLES IS STRICTLY PROHIBITED.

g. Equipment needed to operate a range (paddles, flags, targets, public address sets or microphones, etc.) is either located on the range or will be issued at Range Control headquarters. Range Control will issue staple guns and staples.

h. Units are responsible for the area until all equipment is turned in and a Range Inspector has inspected and cleared the area/range/facility.

1-6. Special Coordination. Special coordination with Range Control is required for:

a. Targetry not normally supplied by Range Control. Coordinate at least ten (10) days prior to need. If required material must be ordered, sufficient lead time must be allowed for the supply system to work and Range Control must have available funds; otherwise, the unit must supply special targets with Range Control concurrence. Range Control supplies targetry required for small arms qualification for M16A1/A2, machine guns, handguns, E and F silhouettes, and paper silhouette skins. Range Control cannot supply targetry for use other than on South Post.

b. Any use of a range or facility for other than its primary intended use. Requests for immediate action drills (IAD) must be accompanied by a written plan with sketch showing weapon-firing points.

c. Night road marches under blackout conditions require an overlay with checkpoints, route, times, and controls. Dismounted night foot marches require the same if conducted along traveled roads. Driving with night vision devices requires completion of the classroom portion of the training and a letter signed by the commander certifying completion of the classroom training. Assistant drivers will not wear night observation devices (NODS).

d. Training involving excavating, clearing or construction.

e. Access through the Oxbow Wildlife Refuge. Requests should note times gates need to be opened. Gates in the Oxbow Wildlife Refuge will not be left open. The Still River Bridge has been assigned a 20-ton weight limit by the Commonwealth of Massachusetts.

f. Written scenario for IAD will be submitted before the range will be scheduled. Scenario should be submitted 30 days prior to desired date of use.

1-7. The Commander of Using Units Will:

a. Ensure that all personnel are familiar with local range procedures and safety requirements.

b. Designate an OIC as specified.

c. Designate, train, and certify OIC, Warrant Officer-in-Charge (WOIC), Noncommissioned Officer-in-Charge (NCOIC), and Range Safety Officer (RSO), to ensure they

are:

- (1) Competent and properly instructed in the performance of their duties.
- (2) Knowledgeable of the weapons systems for which they are responsible.
- (3) Able to coordinate plans for firing exercises and maneuvers with Range Control.

1-8. Who may be an Officer-in-Charge or Range Safety Officer (RSO).

a. A commissioned, warrant, or noncommissioned officer from the training or firing unit chain of command.

(1) A noncommissioned officer serving as Range Safety Noncommissioned Officer (RSNCO) will normally be in the grade of Staff Sergeant or above. If filling a Staff Sergeant position, an NCO in the grade of Sergeant may serve as the RSNCO.

(2) The need of a RSO on combined arms live fire exercises (CALFEX) will be based on the complexity of the exercise and number of participants (i.e., squad, section, platoon, company, troop, squadron, battalion, and larger).

b. Personnel detailed as RSO, Range Safety Warrant Officer (RSWO) or RSNCO must:

(1) Have satisfactorily completed a standard program of instruction in the duties of RSO developed by the battalion to which they are assigned.

(2) Be qualified and knowledgeable in the weapons systems involved and the RSO duties required.

c. Civilians may act as the OIC and RSO of a firing range if they are qualified and approved to perform such duties by the Devens RFTA RCO (i.e., weapons testing and competitive shooting).

1-9. Duties of the OIC.

a. The OIC will:

- (1) Be responsible for the overall safe conduct of training and proper use of facilities.
- (2) Be present when individuals on range are firing.
- (3) Be of the required rank and certified for the weapon system being fired.
- (4) Appoint an RSO as required.
- (5) Determine when it is safe to fire.

(6) Supervise the procedures for misfires, hangfires, and cookoffs.

(7) Ensure required communications are established and maintained with Range Control.

b. Prior to firing, the OIC will ensure that:

(1) The correct range or firing position is occupied.

(2) The impact area/Surface Danger Zone (SDZ) is clear of personnel and, if required, measures are taken to deny entry.

(3) Communications with Range Control are established and operative.

(4) Only authorized ammunition, charges and fuses are used.

(5) Ammunition to be fired is within prescribed temperature limits (keep it in the shade).

(6) All firing precautions (including boresighting) have been taken.

(7) CLEARANCE TO FIRE HAS BEEN GIVEN BY RANGE CONTROL.

c. During firing, the OIC will ensure that:

(1) Personnel do not move to or leave the firing line without permission of the OIC or RSO.

(2) Material is not removed from the firing line without permission of the OIC or RSO.

(3) The SDZ is monitored to ensure it remains clear.

(4) Impacts are observed to ensure projectiles impact within the prescribed impact areas.

(5) Misfires are removed from the weapon only on command of the OIC in accordance with procedures established for the weapon.

(6) Weapons are cleared and checked during temporary suspensions of firing. **DO NOT USE SECTIONED CLEANING RODS TO CLEAR WEAPONS.**

(7) Records are maintained on the type of ammunition fired, number of rounds fired, number of duds and their approximate location.

(8) Firing is stopped promptly when any unsafe act is observed.

d. After firing, the OIC will ensure that:

- (1) All weapons are cleared.
- (2) The number of duds and approximate location are reported to Range Control (explosive projectiles only, including pyrotechnics).
- (3) Firing status of range is properly designated by flags or lights.
- (4) Area is properly policed.

1-10. Duties of the Unit Range Safety Officer.

a. Be responsible for the final determination before firing, ensuring that:

- (1) Weapons are properly positioned.
- (2) Only authorized ammunition, to include proper charge, fuse, and fuse settings, is used.
- (3) Firing settings and weapons are within prescribed safety limits and verified.
- (4) Appropriate safety measures are taken and the SDZ is clear of personnel. (This includes closing of barriers, denying entry into the impact area and posting road guards if required.)
- (5) Proper hearing protection is worn by all personnel on the range, and helmets and eye protection are worn as may be required

b. Order an immediate cease-fire or check fire when any unsafe condition is observed.

c. On completion of firing, verify weapons are clear to the OIC and record duds and their approximate location.

CHAPTER 2. SAFETY

2-1. General. Safety is the primary concern when conducting any training at Devens RFTA. SAFETY WILL NOT BE SACRIFICED FOR THE SAKE OF REALISM. Safety is the first consideration of every soldier and civilian using Devens RFTA facilities. Safety is the primary responsibility of every leader down to the smallest element.

2-2. Safety Certification Program.

a. Commanders are required by Army Regulation (AR) 385-63, Policies and Procedures for Firing Ammunition for Training, Target Practice, and Combat, paragraph 4-2b(3), AR 210-21, Para 2-13j, and TC 25-8, Chapter 5, to certify unit range personnel. Commanders may

develop their POI to suit their needs or contact Range Control for a sample POI. Battalion commanders will submit a list of certified personnel and the weapon systems they are certified for to Range Control annually not later than 1 October and update it as necessary. PERSONS NOT CERTIFIED AS OIC WILL NOT SIGN FOR RANGES.

b. Persons in violation of safety procedures may be decertified and the training suspended until the unit appoints another qualified individual. If evidence of unsafe practices is found after a unit has cleared and before another unit uses the area, a letter decertifying the OIC and Range Safety Officer may be issued by the Range Control Officer.

2-3. Safety Briefing. Commanders will ensure that the OIC and safety personnel receive a safety briefing prior to assuming duties. This applies to training exercises and ranges. The OIC will ensure all personnel receive an unexploded ordnance briefing. All late arrivals will be briefed.

2-4. Duds (Unexploded Ordnance).

a. A dud is defined as a failure to function as designed after firing or launching. Example: A 40mm high explosive (HE) round that does not explode on impact is a dud. A 40mm HE round that does not fire is NOT a dud, it is a misfire.

b. DO NOT PICKUP, MOVE, OR IN ANY WAY DISTURB ARTILLERY OR MORTAR PROJECTILES, ROCKETS, GRENADES, FLARES, PYROTECHNIC DEVICES, COMBUSTIBLE DEVICES, BLASTING CAPS, OR FUSE DEVICES. ANY OBJECT NOT READILY IDENTIFIABLE IS TO BE CONSIDERED AND TREATED AS A DUD.

c. Duds will be disposed of only by qualified explosive ordnance personnel.

d. Suspected duds outside the marked impact area will be marked at a safe distance in a readily identifiable manner and Range Control notified. A unit representative will remain on site until a Range Inspector arrives or other instructions are given by Range Control.

e. Under no circumstances will personnel enter the impact area or go forward of a firing position to locate and mark a dud. A sketch map showing the approximate location of explosive duds will be prepared and given to Range Control.

2-5. Restricted Areas.

a. Forward of the target line on all 25-meter ranges.

b. Forward of the firing line on all other ranges.

c. The impact area is defined by Harvard Road on the west, Firebreak Road on the east, Shoefelt Road on the south, and beyond the 300 meter target line on Echo Range, the target pits on Golf Range and Turnpike Road to Firebreak Road on the north. NO PERSON WILL ENTER THE IMPACT AREA WITHOUT RANGE CONTROL AUTHORIZATION AND/OR

ESCORT.

- d. Delta Range forward of the firing line is absolutely off limits to unauthorized personnel.
- e. Any road, trail, or area beyond closed range gates or other Range Control barricades.
- f. Archaeological sites and environmental cleanup sites. Sites will be physically marked or briefed to the user.
- g. Contractor sites unless authorized by the contractor and Range Control. Such sites will be physically marked or briefed to the user.
- h. The Oxbow Wildlife Refuge except for the main tank trail. Vehicles are expressly prohibited from leaving the traveled surface and no training will be conducted in the refuge.
- i. Any area other than Training Areas 6 and 7 for tracked vehicle use unless specifically authorized by Range Control and the Natural Resources Manager.
- j. Vehicle use on Turner DZ may be restricted due to weather conditions. Tracked vehicles will not operate on the grass surfaces at any time. Tracked vehicles may use Shoefelt Road across the drop zone and operate along the tree line south of the drop zone. No other roads or trails on the drop zone are to be used by tracked vehicles. Other vehicle operations are authorized with specific coordination with Range Control or the Natural Resources Manager.
- k. Any structure, range, facility, or training area not signed for or otherwise authorized for use. Violators will be required to clear the area in addition to those scheduled and signed for.
- l. Ground water monitoring wells located around South Post, to include ranges and the impact area, are off limits to unauthorized personnel. Units will not conduct any activities in the immediate location of the wells. All wells are painted bright orange and have protective barriers around them.

2-6. Ammunition and Demolition Restrictions.

- a. Any weapon system, ammunition, or course of fire not listed in the Range Data Sheets in this regulation or approved on a case-by-case basis by Range Control. Members of training units will not bring privately-owned weapons or ammunition to ranges or training areas. Persons found with such items will be removed from South Post.
- b. No .50 caliber ammunition, other than plastic reduced range ammunition, and .50 caliber blank ammunition, may be fired on South Post ranges.
- c. No mortar ammunition larger than 81mm.
- d. No chemical (gas) rounds of any type. No chemical suppressant (CS) or other gases, or any riot control agent will be used in any training area or on any range. Chemical suppressant

powders will not be used any place on South Post.

e. No pyrotechnics will be used without daily approval from Range Control, including smoke grenades and trip flares.

2-7. Smoke Operations. Smoke will not be employed if the location and wind direction is such that the smoke may drift off the reservation. Personnel will carry protective masks when participating in exercises using smoke. Personnel will mask before:

a. Exposure to any concentration of smoke produced by white smoke grenades or smoke pots (HC smoke) or metallic powder obscurants.

b. When operating in or passing through a smoke haze (visibility greater than 50 meters) and the duration of exposure will exceed 4 hours.

c. When operating in or passing through dense (visibility less than 50 meters) smoke concentrations, such as smoke blankets or curtains.

d. Anytime exposure to smoke produces breathing difficulties, eye irritation, or discomfort. Such effects on one person may signal the need for all exposed persons to mask.

e. Using smoke in confined or enclosed areas, such as urban operations (MOUT training). Smoke in confined areas may cause oxygen depletion. Care must be taken to prevent entry into an oxygen deficient area. The protective mask is no protection against oxygen depletion.

2-8. Communications.

a. Range Control is the net control station (NCS) for the range communication network. The range net is a clear text, directed, safety net. Units will use the area, range, or facility they are occupying as their call sign. If two or more units are using the same area, they will use their unit designation and area as their call sign. Internal communications will not be conducted on the range net. All communications directed to or originated from Range Control will be on the FM frequency designated by Range Control; squelch off for the VRC family of radios. Units with Single Channel Ground and Airborne Radio System (SINCGARS) will use the designated FM frequency, single channel mode, with the function knob in the off position.

b. Military units are responsible for providing their own communications equipment. Failure to do so may result in denial of requested facilities. Range Control may provide radios to non-military organizations if sufficient radios are on hand. The first priority for Range Control radios is Range Control use.

c. All units using any range, training area, or facility, are required to maintain continuous communications with Range Control. Radio checks will be made with Range Control hourly. A unit headquarters or Tactical Operations Center (TOC) may make the hourly radio checks for subordinate units if they maintain internal communications with the units.

d. All units will give Range Control the eight-digit grid coordinate of their command post within one hour of occupation.

e. Units will have enough radios to conduct internal communications and monitor the range net. An operator will be assigned to monitor the range net at all times. Cease fires, notices of emergency messages, and other traffic for units are passed by radio. Units that consistently fail to respond will have training suspended until communications are established and maintained.

f. There are no mag drops or any other telephone connections on South Post.

2-9. Ammunition Safety, Handling and Storage. All munitions will be handled and stored IAW AR 385-63, AR 385-64, Field Manual (FM) 5-25, and specific publications pertaining to the ammunition or weapon system.

a. No ammunition, other than blanks, will be fired at any location other than a range.

b. FIRING 40MM SMOKE, GAS ROUNDS, OR FLARES, IS STRICTLY PROHIBITED IN ANY TRAINING AREA.

c. All spent brass will be policed from ranges. Brass and unfired live rounds will be returned to the Ammunition Supply Point (ASP). Misfires will be returned to the ASP.

d. Small arms ammunition may be stored on the range overnight. It must be guarded and the guards must have radio communication with Range Control. Demolitions and high explosive ammunition may not be kept on the range overnight. Ammunition other than blanks will not be kept in training areas. Field ammunition supply points are not authorized.

2-10. Tracer Ammunition and Pyrotechnic Use. Daily permission must be obtained from Range Control before use. Use will be determined by the fire index for the day as determined by the local fire department.

2-11. Vehicle Safety.

a. Seat belts are required to be worn.

b. All vehicles entering or moving in a bivouac area after dusk will have a flashlight equipped ground guide. Vehicles larger than 1 1/2 tons will have a front and rear ground guide.

c. A rear ground guide is required for any tactical vehicle when backing.

d. Speed limits on South Post are:

(1) 25 mph on paved roads.

(2) 15 mph on gravel or improved hard packed roads, in congested areas, when passing

vehicles parked close to the traveled way, when passing marching troops or troops dismounting from vehicles.

(3) 5 mph on trails or in training areas.

e. Vehicles that become stuck or otherwise inoperable are the driver/unit responsibility. Range Control will not tow any vehicle.

f. The Transportation Motor Pool (TMP)/General Services Administration vehicles will not be used cross-country. Transportation Motor Pool 4-wheel drive vehicles may be used on unimproved roads. Other TMP vehicles may be used on graveled or paved roads only. Range Control may restrict the travel of TMP vehicles by agreement with the Installation Transportation Officer. This restriction does not preclude responding to a medical emergency or life-threatening situation, if necessary. However, caution and common sense will be used.

g. The driver or vehicle commander of all vehicles entering South Post will report to Range Control before proceeding onto South Post.

h. Privately-owned vehicles (POV) are not allowed in training areas or on ranges. Exceptions are made on a case-by-case basis by Range Control. Privately-owned vehicles driven by law enforcement personnel are considered to be government vehicles. All POVs authorized on South Post will have a pass issued by Range Control. Training units will not park POVs on South Post or at Range Control headquarters. Parking of POVs is not authorized on South Post; units/individuals will park POVs on Main Post and make arrangements for tactical vehicle, government vehicle, or bus transportation. Unauthorized privately-owned vehicles parked on South Post, including at Range Control headquarters, are subject to ticketing and towing at the owner's expense.

i. Climbing of telephone or electric poles is expressly prohibited. Signs will not be posted on utility poles. Any unit having a mission requiring climbing of utility poles carrying live wires will have written approval from the Installation Safety Officer and Directorate of Public Works before doing so.

2-12. Alcoholic Beverages. ALCOHOLIC BEVERAGES WILL NOT BE BROUGHT ONTO SOUTH POST FOR ANY REASON. UNITS OR PERSONNEL VIOLATING THIS POLICY WILL BE IMMEDIATELY ORDERED TO CEASE TRAINING AND LEAVE SOUTH POST. THEY WILL NOT BE ALLOWED TO RETURN OR SCHEDULE FURTHER TRAINING WITHOUT THE WRITTEN APPROVAL OF THE INSTALLATION COMMANDER.

2-13. Civilians. Civilians will not be allowed into the South Post tactical training area unless specifically authorized by Range Control.

2-14. Fires. Open fires and burn barrels are not allowed. Any fires will be reported to Range Control, giving the location, extent of fire, and unit reporting the fire. Instructions from Range Control will be followed. NO ATTEMPT WILL BE MADE TO EXTINGUISH FIRES IN THE IMPACT AREA. Ranges will be placed in a cease-fire status by Range Control if necessary.

Firing will not resume until authorized by Range Control. Units will make every effort to extinguish small fires only if authorized by Range Control to proceed downrange. Fire guards will be posted by units using tent stoves. An ABC-type fire extinguisher will be available for each stove in use. Field heater use will be IAW the appropriate Technical Manual (TM) and the field heater checklist contained in this regulation.

2-15. Aircraft. Military aircraft with FM capability will call Range Control on the current FM frequency before entering South Post airspace. Pilots will call Range Control telephonically before takeoff to schedule training missions and receive a range briefing. For aircraft conducting cargo or personnel drops at Turner Drop Zone, the Drop Zone Safety Officer (DZSO) will maintain communications with Range Control. Any person observing aircraft apparently in the SDZ for a range will immediately call a cease-fire and Range Control will be notified. Firing will not resume until Range Control gives permission. Range Control has no control over civilian aircraft in South Post airspace. Airspace is denied when mortar fire is being conducted. Helicopters and any other non-participating aircraft will remain one half nautical mile from the perimeter of the drop zone when cargo or personnel drops are in progress.

2-16. Unsafe Acts or Conditions. Anyone observing an unsafe act or condition has the authority and obligation to call for an immediate "CEASE FIRE" or halt training being conducted. If correctable on the spot, training may resume after the unsafe condition no longer exists. If the condition cannot be rectified, Range Control should be notified immediately. Firing may not resume without permission from Range Control.

2-17. Misfires. A misfire is a complete failure to fire. It is not a dud. Misfire procedures contained in the publications for the particular weapon system will be followed. The misfire will be returned to the Ammunition Supply Point. Misfires will not be returned to the guard at the ASP. If ammunition personnel are not on duty, the misfire(s) will be kept at the range and under guard until proper personnel are available to accept the turn in at the ASP.

2-18. Water Training. Any training in or over water will be in strict accordance with Forces Command Safety Regulation 385-1. Training involving water activities may be conducted at Slaterock Pond and Clear Pond. Spectacle Pond will not be used for training. Water training activities will require the following, as a minimum:

- a. All personnel will be categorized and distinctively marked as swimmers or non-swimmers.
- b. Coast Guard approved life jackets/belts will be worn.
- c. The OIC will ensure all personnel receive a water safety briefing.
- d. Helmets will not have the chinstrap fastened.
- e. A safety line will be used and will extend the full distance to be traversed. Gear will be secured to the line and not personnel.

f. A flat-bottomed boat will be at the site and equipped with life rings and a safety pole. A qualified lifeguard will man the boat.

g. At least two physically fit, Red Cross certified lifeguards, with lifesaving equipment, will be present during training. They will be appropriately clothed for immediate rescue.

2-19. Tracked Vehicles. THE ONLY AREAS AUTHORIZED FOR TRACKED VEHICLE TRAINING OR USE ARE TRAINING AREAS 6 AND 7.

a. All tracked vehicle entry and exit of South Post will be through the Oxbow Wildlife Refuge unless transported on removable gooseneck trailers. Access to Training Areas 6 and 7 will be through the impact area. Speed limit is not to exceed 15 mph. All turns on paved surfaces will be gradual and fully controlled. Extreme caution will be used on hot days when the pavement is soft. Track vehicles will not ride the shoulders of roads. The Still River bridge entering South Post has a vehicle weight classification of 20 tons. When crossing the bridge:

(1) Ground guides will be used.

(2) All crew members except the driver will dismount.

(3) Stay astride the center line.

(4) One vehicle at a time on the bridge. No personnel on the bridge at the same time.

(5) Do not exceed 5 mph. Do not accelerate or brake while on the bridge.

(6) If necessary to tow a tracked vehicle across the bridge, the towed vehicle will have to be winched across.

b. Tracked vehicles will be escorted by a wheeled vehicle leading the column from the Route 2 underpass to the training area. Speed limit will not exceed 10 mph when passing troops, parked vehicles along the road, or congested areas.

c. Ground guides will be used when moving within a bivouac or assembly area.

d. Tracked vehicles will not operate on the grass surfaces of Turner Drop Zone at anytime. The trails on the DZ will not be used if soft or muddy enough that ruts occur.

e. Units are responsible for repairing damage caused by tracked vehicles to roads or training areas before the unit departs. If repairs are beyond the unit capability, the unit may be billed for restoration costs as determined by the installation Natural Resources Manager.

f. To preclude excessive damage to terrain, during periods when the ground may be abnormally soft, tracked vehicle training may be limited or canceled. Range Control and/or the Natural Resources Manager will make determination.

2-20. Range Safety. Only certified personnel will act as OIC/RSO. All safety requirements contained in this regulation and the safety guidelines or warnings in the weapon FM/TM will be complied with.

- a. Blank adapters and MILES equipment will be removed from all weapons on the range.
- b. No running or horseplay on ranges.
- c. Personal weapons and ammunition will not be fired or brought to range by unit personnel.
- d. Live ammunition will not be present at any location where blank ammunition is to be fired.
- e. All persons on the range including visitors will have hearing protection.
- f. Firing 40mm Target Practice (TP) ammunition requires eye protection and sleeves rolled down.
- g. Helmets are required on explosive ranges and in the pits on any known distance range. Explosive ranges include demolition, hand grenades, antitank weapons, mortars, and M203/M79 firing. Wearing of helmets at any other time is at the commander's discretion.
- h. The appropriate FM and TM for the weapons being fired and the range book issued by Range Control must be present on the range.
- i. A ten-pound B-C fire extinguisher must be present. Dry chemical or CO² are the only types authorized.
- j. Constant radio communication with Range Control must be maintained.

2-21. Opposing Forces (OPFOR) Actions. A schedule and plan for all OPFOR attacks will be submitted to Range Control before operations are conducted.

- a. OPFOR will not interfere with critical activities.
- b. There will be no physical contact between forces. Personnel will not be mistreated. The OPFOR OIC will be present for all contacts.
- c. OPFOR will have constant communications with their controlling unit. The controlling unit will have constant communications with Range Control.
- d. No OPFOR actions will be undertaken against units conducting range firing or any places that live ammunition is present. Smoke will not be employed in any situation involving moving vehicles or blackout driving.

2-22. Medical Support. Ambulances, emergency medical vehicles, and medical personnel are no longer required to standby at every range, weapons training facility, or training area. Standbys are required for:

a. Guided missile or heavy rocket firing (excluding direct fire antitank missiles and rockets). The only missile that may be fired on South Post is the MICLIC, inert charges only.

(1) Ambulances or equivalent medical vehicles, suitably equipped and manned by at least two medical personnel shall be readily available during firings.

(2) Ambulance and medical personnel are not required to be at the firing site where crash and rescue, fire fighting, and medical crews and helicopters are maintained on an immediate alert status.

b. Flame operations.

2-23. Basic Weapons Safety. The RSO will periodically check the entire range area for the following:

a. M16A1/A2 rifles will have the magazines removed, bolt to the rear, and dust cover open, and mechanical safety on.

b. Pistols will have the magazines removed and slide locked to the rear. The slide may be forward on holstered weapons.

c. M60 machine guns and Squad Automatic Weapons (M249) will have the feed cover open, bolt forward, and mechanical safety on.

d. Shotguns will have the bolt open and magazine empty.

e. Blank firing adapters and MILES equipment will be removed from all weapons on live fire ranges.

f. All weapons will have a **one piece** clearing rod passed through the barrel before removal from the firing line and before removal from the range.

g. No one will go forward of the firing line until all weapons are grounded, cleared, and no person is handling a weapon.

h. Weapons will be pointed up and downrange at all times.

2-24. Accident Reporting.

a. Any training or firing accident will be reported to Range Control immediately. If medical evacuation is required, Range Control will call for an ambulance. If possible, the unit requiring an ambulance will have an escort vehicle at Range Control to meet the ambulance. If

an escort is not possible, a guide will meet the ambulance on the nearest main road closest to the accident site. The unit will complete DA Form 285 and send it to the Installation Safety Office IAW DA Pamphlet 385-40.

b. Ambulance support is provided by civilian sources and should be called for in emergency situations only. Units with organic transportation should consider utilizing their own assets before calling for ambulance assistance.

2-25. Unsafe Conditions and Incident Reporting. Any unsafe condition of ranges, training areas, or facilities should be reported to Range Control for correction. An incident is a violation of regulations or act that could result in an accident but does not. Units should take immediate action to correct incidents if possible. If the unit cannot correct the problem, report it to Range Control.

2-26. Weather Warnings. Severe weather warnings will be broadcast over the Range Control net as they are received. The Wet Globe Bulb Temperature (WGBT) will be broadcast as it changes. It is the commander's responsibility to take whatever action is required to protect the soldier. Range Control does not cancel or modify training due to weather, except when snow/ice makes roads impassable or ranges unusable.

CHAPTER 3. ENVIRONMENTAL ISSUES

3-1. Environmental Protection. All training will be conducted in compliance with federal, state, and local environmental laws, regulations, and directives. Every individual is responsible for prevention of damage or pollution. UNITS WILL BE HELD ACCOUNTABLE FOR REMOVAL AND DISPOSAL OF HAZARDOUS WASTE CREATED OR CAUSED BY THE UNIT. Units must file environmental documentation with the DPW-ED before scheduling training.

3-2. Refueling. There are three refueling points constructed specifically for vehicle refueling. They are located in training areas 9A, 10B, and 14A. Each refueling point is large enough to contain two 5,000-gallon tankers. Schedule refueling points as any other training facility. A unit using a refueling point must have a co-use agreement with any other unit in the training area unless the refueling unit owns the area.

a. Every precaution will be taken not to contaminate the refueling points since accumulated water must be pumped out (14A) or drained (9A/10B) periodically. THESE REFUELING POINTS DO NOT HAVE OIL/WATER SEPARATION CAPABILITIES. Vehicles will park on heavy plastic sheeting, use drip pans when refueling and place nozzles in drip pans when not in use. Any drips or spills will be immediately cleaned up and disposed of in a container supplied by the unit for that purpose.

b. Units will inform Range Control of their intent to conduct any refueling operations. Range Control will insure that the drains on the refuel points (9A/10B) are closed prior to any use of these facilities.

c. Fuel vehicles will report to Range Control, before entering South Post, for inspection. All fuel vehicles will have:

- (1) An operator certified to dispense Petroleum, Oil and Lubricant (POL) products.
- (2) Ground rods, plastic sheeting, absorbent materials, drip pans, shovel, sandbags, fire extinguisher, and nozzle drip container.
- (3) No leaks. Leaking vehicles will be denied entry to South Post.

NOTE: If the above requirements are not met, refueling will not be conducted.

d. Refueling vehicles or portable fuel pods (PFP) parked any place other than a specially constructed refuel point will be parked in a plastic lined, sandbagged depression large enough to contain 110% of the contents. Accumulated water will be removed periodically. Any POL sheen or contamination must be removed, using sorbent pads or oil removers, before the water is drained to the ground.

e. Use and Storage of Portable Fuel Pods Procedures. All fuel tankers, fuel trailers, 5-gallon cans of fuel, generators and heaters are designated as a PFP for the purposes of this regulation and the following applies:

- (1) Fuel pods shall not be filled more than 95% full to prevent "burping".
- (2) A licensed fuel handler shall be present at all times during fuel transfer operations.
- (3) Vehicle refueling will only take place in the refueling points in areas 9A, 10B, and 14A. Refueling vehicles at any other location on South Post is specifically prohibited.
- (4) A secondary containment shall be provided around any PFP parked or stored outside the refueling points, and containing fuel. Secondary containment must be constructed of material impervious to the fuel being stored. This spill containment area shall be of sufficient volume to contain 100% of PFP contents plus 6 inches of freeboard for precipitation. Secondary containment shall be inspected daily and accumulated precipitation drained to ground IF THERE IS NO SHEEN ON THE WATER. Any sheen or contamination must be removed using sorbent pads or oil removers before draining. A LOG MUST BE KEPT OF ALL INSPECTIONS AND DISCHARGES.
- (5) When a PFP contains fuel, specific procedures will be implemented by the unit to ensure that the status of the PFP and Spill Containment is checked daily, that all precipitation is inspected before discharge, and that no liquid containing a sheen of oil is allowed to be discharged. Records of such inspections shall be maintained showing the inspector's name, the date, time, findings, and signature.
- (6) A spill response kit, as described in the unit Spill Prevention, Control, and Countermeasures Plan (SPCCP), shall be present during all fuel transfer operations.

(7) All PFPs should be stored empty. If not stored empty, they must have spill containment.

(8) All valves shall be capped, locked, or lock wired shut during transport and prolonged periods of non-use if the PFP contains fuel.

3-3. Maintenance Operations. Normally vehicle maintenance beyond operator level will not be performed in the field on South Post. Maintenance operations requiring fluid changes, removal/replacement of major components (engines, transmissions, etc.) require approval by the Directorate of Public Works Environmental Division and Range Control to ensure proper spill prevention measures, handling and disposal of waste.

3-4. Spill Response Procedures. If a spill occurs, the following actions will be taken:

a. Contain the spill. Cover all drains in the path of the spilled liquid. Use sorbent pads, sorbent material, or containment booms to divert the liquid away from drains, culverts, drainage ditches, bodies of water, and to stop the spill from spreading.

b. On South Post, notify Range Control at extension 2723, on Main Post, notify DOD Police Desk, extension 3333 or during normal business hours, notify DPW-ED at extension 3784. Follow “Use Immediate Action Drill” procedures. Be prepared to give the following information:

- (1) The amount of material spilled.
- (2) The name of the material spilled.
- (3) Where the spill is located.
- (4) Time and Date of the spill.
- (5) Whether or not the spill is contained.
- (6) Your name and title.
- (7) Your telephone number.

c. Range Control will contact DPW-ED who will contact the following agencies.

(1) Massachusetts Department of Environment Protection at 1-617-292-5589 (after hours).

(2) EPA Oil and Hazardous Material Section, Regional Response Center at 1-617-223-7265 (24 hours a day).

(3) The National Response Center, Coast Guard Duty Office at 1-800-424-8802 (24 hours a day).

d. Spill cleanup will be accomplished by using proper protective equipment for the specific spilled material. Clean the area with sorbent pads and material. All contaminated soil will be shoveled into an UN approved, open top 55-gallon drum and covered. If the amount of soil is too much to be put in drums, shovel all contaminated soil onto a plastic tarp and cover with plastic. All containers and piles will be labeled with the date of the spill, the substance spilled, and the hazard associated with the material. Labels must include the words "Hazardous Waste".

3-5. Hazardous Waste.

a. All spills of fuel, oil, solvents, etc., must be cleaned up immediately regardless of how small they may be. Spills will be reported to Range Control as they occur.

b. The unit is responsible for digging up and disposing of all soil contaminated by POL products. The DPW-ED representative will normally be the person who determines when the cleanup is complete. Contaminated soil and waste will be deposited in a hazardous waste drum provided by the unit. Drums must be labeled IAW environmental regulations. The unit may transport drums to Range Control for temporary storage in a hazardous material storage shed. If there is no room in the shed, the unit must make other arrangements for storage or disposal.

Hazardous waste will not be transported off South Post by units. Holes will be refilled with clean fill.

c. Drip pans with sorbent material will be placed under all tent heaters, heater fuel cans, fuel relay pumps, cook stoves, and all 5 gallon refueling cans. Sorbent material not contaminated will be stored by the unit for re-use.

3-6. Solid Waste. Units are responsible for disposal of all trash.

a. Dumpsters located at Range Control or other locations on South Post may be used for trash disposal. No wood, metal, tires, or hazardous material will be placed in the dumpsters. If the dumpsters are full, the unit must take the trash with them. Trash and garbage will not be placed in containers designated for recycled cardboard.

b. Food products, trash, garbage, and grease from mess operations will not be burned or buried. Soakage pits may be dug for disposal of grey water only. Soakage pits will be constructed IAW field sanitation publications. A soakage pit 4 feet square and 4 feet deep will handle 200 gallons of liquid per day in well-drained soil.

c. Field latrines of any type will not be used on South Post. Units will arrange for sufficient portable latrines. There are portable latrines located permanently on each range and facility. They will be moved by the contractor only. **THERE ARE NO PORTABLE LATRINES IN THE TRAINING AREAS.**

3-7. Water Resources. The Massachusetts Wetlands Protection Act decrees that no construction or training shall take place that would cause, directly or indirectly, alteration from erosion or pollution of streams, ponds, rivers, lakes, or any other wetland on the installation, or within 100 feet of such areas.

a. Water will not be taken or drained from any body of water without DPW-ED or Natural Resources Manager approval and Range Control concurrence. Decontamination sites, showers, and mess operations should use water tankers. The only sites authorized for water purification operations are in Training Area 9A and Training Area 14.

b. The only potable water source on South Post is the water point located on Dixie Road opposite Echo Range. Sign for the hydrant wrench at Range Control. Let the water run for three (3) minutes to flush the hoses before filling containers. The water point in Training Area 6 is not potable water, it is for fire department use. No washing of vehicles will be done at any water point or other location on South Post.

3-8. Landscape and Vegetation.

a. Live vegetation will not be cut for any reason unless marked for removal by the Natural Resources Manager. Woodcutting is by permit only. Permits are available from the Natural Resources Manager. Persons wishing to cut wood on South Post will coordinate with Range Control prior to entering the training areas.

b. Trees or plants will not be taken for transplanting.

c. Existing trails and roads will be used to the maximum extent possible to minimize erosion and terrain damage. Vehicles, especially tracked vehicles, will avoid road shoulders and ditches.

d. Fighting positions and other dug emplacements will be filled and mounded to allow for settling. They will not be filled with logs, trash, rocks, or unsuitable debris. Above ground emplacements will be dismantled and the area returned to its original natural state when clearing training areas. Track vehicles are not authorized on Turner Drop Zone at any time. Wheeled vehicles are authorized with the coordination of Range Control.

3-9. Fish and Wildlife.

a. Do not chase, capture, shoot, or in any way harass wildlife. It is illegal to remove wildlife from its habitat. Report vehicle collisions with large animals or birds to Range Control.

b. There are no poisonous snakes in the training area. Report any animal bites or diagnosis of any zoonotic disease to Range Control in addition to standard medical reporting procedures.

c. There are many ticks in the area during warm weather. Ticks are carriers of Lyme

disease and Rocky Mountain Spotted Fever. A new disease, Granulocytic Ehrlichiosis, is being attributed to ticks. The disease has influenza like symptoms and is potentially fatal. All precautions must be taken against ticks.

d. Units conducting survival training must obtain written permission from the Natural Resources Manager at the Directorate of Public Works, to catch fish or wildlife for this type of training.

3-10. Hunting and Fishing. Hunting and fishing are allowed on South Post under certain conditions. All state, federal, and installation regulations will apply. The Natural Resources Manager and Range Control will control all hunting and fishing. Hunting and fishing will not interfere with training activities. To prevent scheduling conflicts, Range Control will be the final approving authority. Hunters and fishermen will take all trash with them when they leave. Persons caught littering may lose their privileges and littered areas may be closed.

CHAPTER 4. RANGE OPERATIONS

4-1. Unit Range Operations. All range firing will be IAW AR 385-63, FM and TM for the weapons systems, and Devens RFTA Regulation 350-2 supplemented as necessary.

- a. Small arms firing may be conducted from 0730-2300 Sunday through Saturday.
- b. Mortar firing may be conducted from 0800-2200 Monday through Saturday. Firing may be curtailed due to adverse weather conditions.
- c. Immediate Action Drill (IAD) Ranges. The IAD will be conducted IAW the IAD Data Sheet contained in this regulation. Immediate Action Drill exercises may be conducted on G-A range. This range is relocated to the right side of Golf Range. Curry Range will not be used for IAD exercises.
- d. Night Fire Ranges. The following applies to all night fire ranges:
 - (1) Left and right limits will be marked with red flashing lights or red chem lights. If there is no red light on the tower, the flagpole will be marked with a red flashing light.
 - (2) Targets will be illuminated with shielded chem lights (not red). Bravo, Echo and Victor ranges have illuminated targets. Pyrotechnics will not be used without permission from Range Control on a daily basis.
 - (3) Use fighting or prone supported positions only.
 - (4) Three vehicles may be parked on the range in positions to be able to use their headlights for emergency illumination. All other vehicles will be parked off the range. Ranges A, B, C, E, P, and V have emergency lights.
 - (5) All range safety personnel will have flashlights and be identified with white armbands or white helmet bands.

CHAPTER 5. UNAUTHORIZED ACTIVITIES

5-1. Prohibited Activities. The following activities are prohibited anywhere within the Devens RFTA except when conducted as scheduled military training or IAW Chapter 5 of AR 210-21:

- a. Swimming or scuba diving, ice fishing or ice skating.
- b. Souvenir hunting or use of metal detectors.
- c. Hunting, except during the installation hunting seasons and as prescribed by installation regulations.
- d. Woodcutting without a permit.
- e. Recreational camping.
- f. Use of any offroad recreational vehicle, jet skis, motor boats, or any gas engine on any body of water.
- g. Open fires unless authorized for survival training.
- h. Cutting or removal of any plants, mushroom hunting, berry picking, dandelion or herb picking.
- i. Sightseeing, horseback riding.
- j. Firing of privately-owned weapons unless conducted IAW AR 385-63, paragraph 4-8, and AR 210-21, paragraph 5-9.

CHAPTER 6. REFERENCES

6-1. Army Regulations (AR):

- a. AR 75-1, Malfunctions Involving Ammunition and Explosives, RCS AMC 132 (Min).
- b. AR 190-11, Physical Security of Arms, Ammunition, and Explosives.
- c. AR 190-13, Army Physical Security Program.
- d. AR190-14, Carrying of Firearms.
- e. AR 200-1, Environmental Protection and Enhancement.
- f. AR 210-21, Army Training Ranges.

- g. AR 385-10, Army Safety Program.
- h. AR 385-55, Prevention of Motor Vehicle Accidents.
- i. AR 385-63, Policies and Procedures for Firing Ammunition for Training, Target Practice, and Combat.
- j. AR 385-64, Army Explosives Safety Procedures.
- k. AR 710-2, Supply Policy Below the Wholesale Level, (Unit Supply Update 13).
- l. AR 735-5, Basic Policies and Procedures for Property Accounting.

6-2. Department of the Army Pamphlets (PAM):

- a. PAM 385-40, Army Accident Investigation and Reporting.
- b. PAM 710-2-1, Unit Supply System.
- c. PAM 385-64, Ammunition and Explosives Safety Standards.

6-3. U. S. Army Field Manuals (FM):

- a. FM 23-9, M16A1/A2 Rifle and Marksmanship.
- b. FM 23-90, 60mm Mortar, M19.
- c. FM 25-100, Training the Force.

6-4. U. S. Army Technical Manuals (TM):

- a. TM 5-4540-202-12-P, Immersion Heaters.
- b. TM 10-4500-200-13, Immersion Heaters.

6-5. Forces Command Regulations (FC Reg):

- a. FC Reg 385-1, Forces Command Safety Program.
- b. FC Reg 700-4, Ammunition.

6-6. Devens RFTA Regulations (Devens RFTA Reg):

- a. Devens RFTA Reg 200-3, Land, Forest, and Wildlife Management.

- b. Devens RFTA Reg 700-8, Ammunition Procedures.
- c. Devens RFTA Reg 385-10, Army Safety Program.

6-7. Map: Devens RFTA Military Installation, Series V7144S, 1:50,000.

6-8. ALM 49-0273-WB (A), Regulation for Refueling and Hazardous Waste Operation.

6-9. 14 CFR Part 73, Amendment to Times of Designation for Restricted Areas R-4102A and R-4102B, Devens, MA.

6-10. Alcohol, Tobacco, and Firearms P5300.4 (6-68) Federal Firearms Regulation.

6-11. Alcohol, Tobacco, and Firearms P5300.5 State Laws and Published Ordnance-Firearms.

6-12. Forces Command message, 120800Z Mar 87, subject: FORSCOM Ammunition Amnesty Program.

6-13. Memorandum, AFRC-FMD-DL, subject: Ammunition Amnesty Procedures.

APPENDIX A

A-1. Officer in Charge/Range Safety Officer (OIC/RSO) Requirements:

- a. The OIC/RSO will meet the grade requirements as outlined in AR 385-63 and paragraph 1-8 of this regulation.
- b. The OIC and RSO will wear a white band on headgear for identification.
- c. The OIC and RSO will be present on the range during firing and have no other duties.
- d. The OIC and RSO may be relieved by other certified persons for the purpose of firing. Range Control must be notified and will verify certification of the replacement personnel.
- e. The OIC and RSO will have read and be familiar with:
 - (1) Army Regulation 385-63, Policies and Procedures for Firing Ammunition for Training, Target Practice, and Combat.
 - (2) Devens RFTA Regulation 350-2, Training; Ranges, Training Facilities, and Training Areas.
 - (3) The TM and FM for the weapons systems being fired.
- f. The RSO will enforce weapons safety standards as outlined in paragraph 2-23 of this regulation as a minimum and will assign an assistant RSO as needed.
- g. A dud briefing and ammunition amnesty briefing will be given to all persons on the range to include late arrivals.

A-2. Equipment Requirements. The following must be present on the range before Range Control will grant permission to fire:

- a. Ten pound B-C fire extinguisher.
- b. Technical manual and FM for the weapons systems.
- c. Radio communications with Range Control.
- d. Medical support, if required.
- e. Hearing protection for all persons on the range.

A-3. Range OIC will:

- a. Sign for equipment and range at Range Control and read the range packet.

BASIC REQUIREMENTS FOR OPERATING A SMALL ARMS RANGE

- b. Occupy the range, establish communications with Range Control and request a Range Inspector.
- c. Brief the RSO/Assistant RSO on safety standards to be maintained, give dud briefing.
- d. After the Range Inspector is satisfied the range is ready, call Range Control and request a hot time, raise the red flag and begin firing.

A-4. Range Inspectors will:

- a. Make periodic safety checks and correct deficiencies if necessary.
- b. Issue targets and equipment from range sheds. Sheds will not be left open for units.
- c. Give a safety briefing to the OIC/RSO and instruct tower operators in the use of electrical targetry.
- d. Notify Range Control when the range is cleared to go hot. The OIC must call Range Control for a hot time.
- e. Inspect the range for clearance by the unit.

RANGES, FACILITIES, AND TRAINING AREAS

APPENDIX B

B-1. Ranges, Facilities, And Training Areas

RANGE	PRIMARY USE	TARGETRY	FIRING POINTS
ALPHA	Pistol, SMG, Shotgun	Paper, E-type Silhouettes	20
BRAVO	Combat Pistol Qual	Air powered pop-up	8
CHARLIE I	Pistol, Shotgun	Paper, E-type Silhouettes	15
CHARLIE II	10 meter MG Qual	M60 MG targets	6
DELTA	Anti-tank, Mk 19	Vehicles, paper pistol	3
	60mm mortar , M203GL,pistol	Pistol targets	15
ECHO	M16 ARF/NBC/Nightfire	Air powered pop-up	16
GOLF	KD Qualification	Paper	40
GOLF 1	KD Qualification	Paper	15
GOLF	M203TP Qual	M203 per TC 25-8	4
ALPHA	Multipurpose		
	IAD, M16 Zero, Pistol	Paper E-type silhouettes	25
HOTEL	M60/SAW Transition	ERETS	4
	Fire, Sniper		
KILO	M16 25 Meter Zero	Paper	35
	Alternate Course C		
OSCAR	60mm/81mm Mortar	Vehicles	4
PAPA	Pistol, Shotgun, SMG	Paper	15
PAPA	Pistol, Shotgun, SMG	Paper	15
ALPHA			
CURRY	Sniper Qualification	Steel Silhouettes	Inactive
TANGO	25 Meter Zero/Alt	Paper	23
	Course C, FBI		
UNIFORM I	25 Meter Zero/Alt	Paper	50
	Course C		
UNIFORM II	25 Meter Zero/Alt	Paper	50
	Course C		
VICTOR	M16 ARF/NBC/Nightfire	Air powered pop-up	16
X-RAY I	25 Meter Zero/Alt	Paper	50
	Course C		
X-RAY II	25 Meter Zero/Alt	Paper	50
	Course C		
YANKEE	25 Meter Zero/Alt	Paper	28
	Course C		
ZULU I	Demolition	Requires RC and DPW-ED approval	N/A
ZULU II	Hand Grenades	N/A	2

B-2. Training Facilities

FACILITY (SCHEDULE AS)

SCHEDULING INFORMATION

Basic Compass Course (Fac 1)	Located in TA 8, 9A, 9B. Requires co-use agreements with other units in areas. Meets EFMB standards.
Basic Compass Course (Fac 2)	Located in TA 7A, 7B, 7C. Requires co-use agreements with other units in areas.
Vehicle Recovery Course (Fac3)	Located off Shirley Road in TA 6A
Leadership Reaction Course (Fac 4)	Co-located with Fac 5 on Trainfire Road. Does not include Fac 5 or 3, or require a co-use agreement
Confidence Course (Fac 5)	Trainfire Road at BT 825065. Does not include Fac 3 or 4, or require a co-use agreement.
Rappel Tower (Fac 6)	Co-located with Fac 5 on TrainFire Road. Does not include Fac 5, or 4, or require a co-use agreement.
NBC Chamber (Fac 7)	Located in TA 14A, does not include use of TA 14A Requires co-use agreement with unit owning TA 14A.
Medical Litter Obstacle Course (Fac 8)	MEDEVAC LZ co-located and must be requested separately.
Observed Fire Trainer (Fac 11)	Located on South Post, schedule through TSC and Range Control.
POL Refueling Points (POL 9A, 10B, 14A)	Located in TA 9A, 10B, 14A. Requires co-use agreement with unit owning training area. Request separately from training area.
Turner Drop Zone	May be used for air ops during mortar fire but aircraft. must stay west of Shirley Rd. No tracked vehicles.
Site 9A ROWPU	Located in TA 9A.
Site 10A	Located in TA 10A.

RANGES, FACILITIES, AND TRAINING AREAS

POLEX

B-3. Training Area DataALL CO-ORDINATES ARE USING 1927 NORTH AMERICAN DATUM

a. Area Number: 6 (Sub-divided into 6A, B, C, D, E,)

- | | |
|-----------------|---|
| (1) Coordinate: | BT 810064 |
| (2) Acreage: | 400 |
| (3) Capacity: | Company |
| (4) Usage: | Tactical - Tracked vehicles authorized.
6E is admin only-no pyrotechnics, blank firing or
prolonged generator/engine running. |
| (5) Boundaries: | North - Shoefelt Road
South - Reservation Boundary
East - Harvard Road
West - Shirley-Lancaster Road |

b. Area Number: 7 (sub-divided into 7A, B, C).

- | | |
|-----------------|---|
| (1) Coordinate | BT 800070 |
| (2) Acreage: | 610 |
| (3) Capacity: | Company |
| (4) Usage: | Tactical - Tracked vehicles authorized.
Advanced Land Navigation Course. |
| (5) Boundaries: | North - Treeline south of Shoefelt Road. (Does not
include any portion of Turner Drop Zone).
South - Reservation boundary
East - Shirley-Lancaster Road
West - Reservation boundary |

c. Area Number: 8 (sub-divided into 8A and 8B)

- | | |
|-----------------|-----------|
| (1) Coordinate: | BT 805086 |
| (2) Acreage: | 125 |
| (3) Capacity: | Company |

RANGES, FACILITIES, AND TRAINING AREAS

- (4) Usage: Tactical
- (5) Boundaries: North - Bivouac Road
South - Treeline along northern edge of Turner Drop Zone. Does not include any portion of Turner Drop Zone.
East - Shirley-Lancaster Road
West - Bivouac Road

(8B is the area South of trail running east/west from BT 799085 to BT 809082 to edge of wood line north of the drop zone.)

d. Area Number: 9 (Sub-divided into 9A, B, C)

- (1) Coordinate: BT 800090
- (2) Acreage: 590
- (3) Capacity: Company
- (4) Usage: Tactical
- (5) Boundaries: North - Reservation boundary
South - Bivouac Road
East - Shirley-Lancaster Road
West - Reservation boundary

e. Area Number: 10 (Sub-divided into 10A, B)

- (1) Coordinate: BT 813085
- (2) Acreage: 255
- (3) Capacity: Company
- (4) Usage: Tactical (10A contains hospital site)
- (5) Boundaries: North - Combat Road
South - Shoefelt Road
East - Firebreak Road
West - Shirley-Lancaster Road

f. Area Number: 12 (sub-divided into 12A, 12B, 12C)

- (1) Coordinate: BT 816100

RANGES, FACILITIES, AND TRAINING AREAS

- (2) Acreage: 90
- (3) Capacity: Company
- (4) Usage: Tactical
- (5) Boundaries: North - Reservation boundary
South - Turnpike Road
East - Attu Road
West - Reservation boundary (Curlian Cemetery is OFF LIMITS)

g. Area Number: 13 (Sub-divided into 13A, B, C)

- (1) Coordinate: BT 835091
- (2) Acreage: 145
- (3) Capacity: Company
- (4) Usage: Tactical
- (5) Boundaries: North - Reservation boundary
South - Reservation boundary
East - Nashua River
West - Jackson and Dixie Roads

h. Area Number: 14 (Sub-divided into 14A, B)

- (1) Coordinate: BT 826097
- (2) Acreage: 160
- (3) Capacity: Company
- (4) Usage: Tactical
- (5) Boundaries: North - Reservation boundary
South - Turnpike Road
East - Jackson Road
West - Attu Road

i. Area Number: 15 (sub-divided into 15A and 15B)

- (1) Coordinate: BT 815095

RANGES, FACILITIES, AND TRAINING AREAS

(2) Acreage:	160
(3) Capacity:	Company
(4) Usage:	Tactical
(5) Boundaries:	North - Turnpike Road South - Combat Road East - Firebreak Road West - Shirley-Lancaster Road

B-4. Conflict/Denial List**HOT RANGE**

Alpha
Bravo
Charlie I/II
Curry
Curry (downrange)
Delta (Mortars)
Delta (AT weapons)
Delta (MK 19 40mm MG)
Delta (All weapons)
Delta (Pistol)
Echo

EOD

GOLF
Golf-Alpha
Hotel (Machine Guns)
Kilo
Oscar
Papa
Tango
Uniform I
Uniform II
Victor
X-Ray I

X-Ray II

DENIES

None
None
None
Hotel, if firing machine guns
V, XI/II, Y
EOD, ZI/II, Firebreak Road, all aircraft
EOD, Echo lanes 1-5, TA 10B
EOD, TA10B, Firebreak Road, Echo lane 1
Downrange Echo beyond the firing line
All other Delta
EOD, ZI/II, Firebreak Road, Lanes 1-5 deny Delta forward berm
Delta, Echo, Oscar
Delta if downrange beyond firing line
IAD on Golf-Alpha
IAD deny Golf, downrange Hotel, Zulu, EOD
Curry, EOD, ZI/II, Firebreak Road
Echo downrange maintenance
All aircraft, EOD, ZI/II, Tango
Echo downrange maintenance
Oscar
None
Downrange Victor
Downrange Curry, downrange X-Ray I, downrange U2
Downrange Curry, downrange Victor, downrange X-Ray II

Downrange Curry, downrange X-Ray I, downrange Yankee

RANGES, FACILITIES, AND TRAINING AREAS

Yankee	Downrange Curry, use of the ROTC training site on the former infiltration course, downrange X-Ray II
Zulu I	Zulu II, Hotel, Victor, Oscar, Delta mortars, Echo
Zulu II	Zulu I, Hotel, Victor, Oscar, Delta mortars, Echo
TA 10B	Denies Delta MK 19 40mm Machine Gun

RANGE AND TRAINING FACILITY DATA SHEETS

APPENDIX C**C-1. Alpha Range**

- a. Location: BT 8365 0820 - Entrance is off Dixie Road at water point across from Echo Range.
- b. Description: Multipurpose pistol, SMG, shotgun, law enforcement weapons qualification.
- c. Ammunition Authorized: All handgun ammunition, rifle not over 5.56mm, all shotguns except riot agents.
- d. Targets: Paper only, no hard targets. Non-military may use Range Control target frames but must provide their own targets. Nothing thrown in the air or lying on the ground will be shot.
- e. Facilities: Target sheds, latrine, ammo table, tower.
- f. Equipment Required: Ten pound B-C fire extinguisher, FM and TM for the weapons, AR 385-63, range packet from Range Control, score cards, hearing protection.
- g. Range Flag Pole: At range entrance by water point.
- h. Communications: FM radio 38.85
- i. Firing Line: 20 points at distances from 5 to 35 meters.
- j. Restrictions: Due to possibility of ricochets leaving the range floor, strict adherence to the ammo authorized is required. All targets must be properly frame mounted. Parking is very limited. Excess vehicles may park in the Observed Fire Trainer (OFT) parking lot across Dixie Road from entrance. Do not block the water point.

C-2. Bravo Range

- a. Location: Dixie Road at BT 8337 0879
- b. Description: Combat pistol qualification and Military Police Firing Qualification Course.
- c. Ammunition Authorized: Handgun up to .45 caliber.
- d. Targets: Air powered pop-up, computer scored.
- e. Facilities: Latrine and bleachers, ammo table, emergency lighting, tower, public address system.
- f. Equipment Required: Ten pound B-C fire extinguisher, FM and TM for the weapons, AR 385-63, range packet from Range Control, hearing protection.
- g. Range Flag Pole: Center rear of range.
- h. Communications: FM radio 38 85
- i. Firing Line: 8 firing points.
- j. Restrictions: Pistol only. All vehicles will park across Dixie Road. Communications vehicle may park by tower.
- k. Remarks: May be used for night fire. Targets have muzzle flash devices.

RANGE AND TRAINING FACILITY DATA SHEETS

C-3. Charlie I Range

- a. Location: Off Dixie Road at BT 8367 0804
- b. Description: Alternate pistol qualification, shotgun, and law enforcement.
- c. Ammunition Authorized: Handgun up to .45 caliber, all shotguns except riot agents.
- d. Targets: Paper only, no hard targets. Non-military may use Range Control frames but must provide own targets. Nothing will be thrown in the air to shoot at.
- e. Facilities: Target shed, bleachers, ammo table, tower, latrines.
- f. Equipment Required: Ten pound B-C fire extinguisher, FM and TM for the weapons, score cards, AR 385-63, range packet from Range Control, hearing protection.
- g. Range Flag Pole: At range entrance.
- h. Communications: FM radio 38.85
- i. Firing Line: 15 firing points at distances from 3 to 35 meters.
- j. Restrictions: No vehicles on the range floor. Communications vehicle may park by tower, all others to the left rear of range. All targets must be properly frame mounted. No shooting at anything lying on the ground.

C-4. Charlie II Range

- a. Location: Off Dixie Road at BT 8367 0809 between Charlie I and Alpha Ranges.
- b. Description: SAW/M60 machinegun 10-meter qualification.
- c. Ammunition Authorized: 5.56 ball and 7.62 ball only.
- d. Targets: 10 meter machine gun qualification.
- e. Facilities: Tower, ammo table, and latrines, target storage shed.
- f. Equipment Required: Ten pound B-C fire extinguisher, FM and TM for weapons, AR 385-63, range packet from Range Control, score cards, hearing protection.
- g. Range Flag Pole: At entrance to Charlie I Range by Dixie Road.
- h. Communications: FM radio 38.85
- i. Firing Line: 6 firing points on 10 meter raised firing line.
- j. Restrictions: Communications vehicle may park by tower, all others park to the left rear of Charlie I Range. No automatic fire. No tracer fire.

RANGE AND TRAINING FACILITY DATA SHEETS

C-5. Curry Range

- a. Location: Knoll at BT 8187 0653.
- b. Description: Special Operations Target Interdiction (SOTI) training facility. THIS RANGE HAS A FORSCOM SAFETY WAIVER IN EFFECT, therefore, it is open only to qualified snipers, training of sniper candidates, law enforcement SWAT shooters, and advanced marksmanship teams.
- c. Ammunition Authorized: 9mm ball, 45 cal ball, 5.56/7.62 ball, M80/M118/M852 national match, 30 cal ball. Tracer with Range Control daily authorization only.
- d. Known Distance: Five (5) lanes with firing points at 100, 200, 300, 400, 500, 600, 700, and 830 meters.
- e. Field Fire: 100 through 830 meters. Five open positions in front of the porch, three positions on the porch.
- f. Moving Targets Trench: The KD target butts are used as a moving target trench. Three firing positions at 100, 200, 300, 400, 500, 600 meters.
- g. Urban Obstacle Firing Positions: All positions are around the range maintenance building. Positions are a rock pile, roof of the maintenance building, wall/window, storage shed roof, tree platforms, two permanent hide sites in front of the building.
- h. Stalk Range: One 800 meter oblique stalk, one 600 meter head-on stalk with observation tower.
- i. Targets: Standard KD paper targets, M16 zero targets, steel silhouettes.
- j. Facilities: Maintenance/storage building (not for unit use), portable latrine, target storage van.
- k. Communications: FM radio 38.85. Loss of communications with Range Control will necessitate a cease-fire. Radio communication with the target pits requires use of a unit frequency.
- l. Range Flags: Flag poles are at the range entrance, mid-range, and downrange along Harvard Road.
- m. Range Gates: Located at BT 81770697 (Impact area gate 8), BT 81960644 (Curry Gate 1), BT 81660666 (Curry Gate 2), BT 82480725 (Curry Gate 3).
- n. Road Guard Requirements: None
- o. Restrictions and Limitations:

RANGE AND TRAINING FACILITY DATA SHEETS

(1) The KD range, the stalk range, and the stalk observation tower will not be used when the following ranges are firing:

- (a) Victor Range
- (b) X-Ray I Range
- (c) X-Ray II Range
- (d) Yankee Range

(2) Status of these ranges will be verified with Range Control before anyone is allowed downrange. A checkfire of any of these ranges will be requested through Range Control, if necessary to go downrange.

(3) All the above listed gates will be closed and locked before firing and the OIC will verify that no one is downrange prior to requesting a hot status from Range Control.

- (a) EXCEPTION: When firing the KD range, Curry gate 1 may be left open.
- (b) When firing from the range house area, all gates will be secured.
- (4) Firing will be at a slow controlled rate.
- (5) NO AUTOMATIC FIRE OR MACHINE GUNS.

(6) Weapons will be fired from the prone supported/unsupported, kneeling, sitting, standing, benchrest or sandbag positions.

p. Safety:

(1) The coach/student method will be used with a maximum ratio of 1:5 when using the KD range or firing from the baseline. All other firing will use a spotter/observer with each shooter.

(2) The standing (off-hand) position will be controlled on a 1:3 instructor student ratio. The instructor will not allow the student to place his finger in the trigger guard or on the trigger until the shooter is in position, the weapon on target, and the shooter has good control of the weapon. The weapon will be loaded one round at a time for off-hand (standing) position shooting.

(3) Using the tree mounted firing positions:

- (a) THERE WILL BE NO RAPPELLING FROM THE TREE.

RANGE AND TRAINING FACILITY DATA SHEETS

(b) The five (5) platforms are the only authorized shooting positions. The weapon will be clear when moving between positions.

(4) All personnel will use hearing protection. When shooting from the porch, personnel should wear both earplugs and aural muffs, due to the sound being confined and magnified by the roof.

(5) Communications will be maintained at all times between the target pits and the firing line. The OIC will call a cease-fire if communications are lost. All pit personnel will wear helmets.

(6) Stalk lane tower personnel will wear Kevlar helmets and flak vests at all times, and maintain communications with Range Control and the lane walker.

(7) There will be a 4-wheel drive vehicle on site for medical evacuation.

(8) Range flags will be up at the 100, 500, and 700 meter flag poles when firing on the range floor (KD, Snaps and Movers, Field Firing).

(a) When firing from the area of the building, the 100 meter flag and the flag at gate 1 must be up.

(b) At night chemical lights or flashing red lights will be used in place of flags. In addition, all gates will be marked with chemical lights.

(9) All persons firing will identify the left and right limit markers. Under no circumstances will rounds be fired that may go outside the markers. Every precaution will be taken to ensure that no rounds go over the hill mass behind the KD pits.

q. Remarks: All requests for this range will clearly state the type of training, type of weapons and ammunition, number of weapons and quantities of ammunition and number of personnel. All sniper training will be conducted under the supervision of a qualified CAT I or CAT II sniper instructor. Marksmanship and SWAT training will be under the supervision of appropriately qualified and certified instructors. Training will be IAW standard programs of instruction, FM, civilian publications, and police manuals, Devens RFTA Reg 350-2, AR 385-63, and the FORSCOM waiver on this range.

C-6. Delta Range (Anti-tank weapons).

a. Location: Off Dixie Road at BT 8351 0794.

b. Description: Anti-tank weapons to include LAW, SMAW, AT-4, 90mm recoilless rifle.

c. Ammunition Authorized: 66mm HEAT, 35mm LAW sub-cal, SMAW 83mm HE, Practice, and spotter cartridges. AT-4 HEAT and 9mm practice cartridges. 90mm HEAT and TP.

RANGE AND TRAINING FACILITY DATA SHEETS

- d. Targets: Vehicles, water tanks located at various ranges out to 1300 meters.
- e. Facilities: Latrine, bleachers, ammo shed.
- f. Range Flag Pole: At entrance to range.
- g. Communications: FM radio 38.85
- h. Road Guard Requirement: One posted in a position that is safe from backblast and keeps others from entering the backblast area. Range gates 3 (north end of Firebreak Road), 5 (South end of Firebreak Road), 6 (Shoefelt and Ponakin intersection), and 7 (South end of Harvard Road close to old water point) will be locked prior to firing AT-4 or 90mm recoilless rifle. Guards not required.
- i. Equipment Required: Helmets, hearing protection, ten pound B-C fire extinguisher.
- j. Publications Required: Range packet issued by Range Control TM 9-1315-886-12 (AT-4 Operator's Manual), USMC TM 08673A-10/1 (SMAW Operator's TM), AR 385-63.
- k. Restrictions: Back-blast area will remain free of equipment and personnel at all times. Training Area 10B and EOD range may not be occupied when firing the AT-4 or 90mm recoilless rifle. FORWARD OF THE FIRING LINE IS OFF LIMITS TO ALL PERSONNEL. RIFLE PROJECTILE GRENADE WILL NOT BE FIRED.
- l. Remarks:
 - (1) All dud locations will be plotted accurately and reported to Range Control.
 - (2) Maximum range of the AT-4 and 90mm is 2100 meters. Extreme caution is required not to put rounds over the ridgeline. These rounds may exit the impact area at approximately 1600 meters.
 - (3) Thermal radiant energy from the AT-4 backblast requires helmets, collars turned up, and sleeves rolled down for persons on the firing line.
 - (4) Firers will wear protective masks when temperature is below freezing.

C-7. Delta Range (40mm grenade launcher M203/M79).

- a. Location: Off Dixie Road at BT 8351 0794.
- b. Description: Introductory firing of M203/M79 grenade launchers. This is not a qualification range. This is the only range authorized for firing 40mm high explosive rounds.

RANGE AND TRAINING FACILITY DATA SHEETS

c. Ammunition Authorized: All M203/M79 rounds with the exception of gas/riot control agents.

d. Targets: Hard targets.

e. Facilities: Latrine, bleachers, ammo shed.

f. Range Flag Pole: At range entrance off Dixie Road.

g. Communications: FM radio 38.85.

h. Firing Line: Raised firing line not laid out per TC 25-8.

i. Restrictions: Firing any smoke, flares, or star clusters requires daily approval from Range Control. FORWARD OF THE FIRING LINE IS OFF LIMITS TO ALL PERSONS.

j. Equipment Required: Ten pound B-C fire extinguisher, hearing protection, radio, FM 23-31, TM 9-1010-221-10, AR 385-63, range packet from Range Control.

k. Remarks:

(1) It is a DA safety requirement that firing 40mm TP requires sleeves rolled down, helmets, and eye protection (goggles or safety lenses), and gloves.

(2) All duds will be accurately plotted and reported to Range Control. All misfires will be returned to the ASP.

(3) No HE rounds will be fired to impact closer than 165 meters.

C-8. Delta Range (MK 19 40mm Grenade Machine Gun).

a. Location: Off Dixie Road at BT 8351 0794.

b. Description: Introductory firing of the MK 19 40mm machine gun. Firing line is raised for tripod mounted evenly spaced weapons. Wheeled vehicles may fire mounted weapons. Vehicles must be parked side by side, facing downrange. Weapons must be evenly spaced based on the middle tripod or vehicle mounted weapon (base gun). A maximum of three weapons may fire at one time due to the limited impact area.

c. Ammunition Authorized: M385A1/M385E4 TP, M918 TP, M430 HEDP, M383 HE.

d. Targets: Hard targets. Engage at a minimum of 300 meters and maximum 1500 meters.

e. Facilities: Latrine, bleachers, and ammo table.

f. Range Flag Pole: At range entrance off Dixie Road.

g. Communications: FM radio 38.85

h. Equipment Required: Ten pound B-C fire extinguisher, radio, cleaning rod and round removal tool P/N 12926849, TM 9-1010-230-23&P, TM 9-1010-230-10, FM 23-27, AR 385-63, range packet from Range Control, hearing protection, eye protection, body armor, helmets, gloves.

i. Restrictions: FIRING FREE GUN IS NOT AUTHORIZED. No tracked vehicles will use the range. No target engagements beyond 1500 meters. Overhead firing is not authorized. The use of more than one firing line at a time is not authorized.

j. Remarks:

(1) Maximum range is over 2200 meters, strict precautions will be taken to ensure no rounds go over the ridgeline downrange. If any rounds do go over the ridgeline, call an immediate cease-fire and notify Range Control. Rounds may exit the impact area at approximately 1600 meters.

(2) Dud rounds, to include TP with a bursting charge, will be accurately plotted and reported to Range Control. Misfires will be returned to the ASP. Follow peacetime and training misfire procedures contained in TM 9-1010-230-10.

(3) Training Area 10B may not be occupied when firing the MK 19. Safety gates 3 and 5 on the north and south ends of Firebreak Road, gate 6 at the Shoefelt and Ponakin Road and gate 7 at the intersection of Harvard and Ponakin Road must be locked. A road guard is required at the range entrance by the flagpole.

(4) ALL PERSONNEL IN CLOSE PROXIMITY TO THE WEAPON WILL WEAR BODY ARMOR, EYE AND HEARING PROTECTION, AND HELMETS. GUNNERS AND ASSISTANT GUNNERS WILL WEAR GLOVES AND HAVE SLEEVES ROLLED DOWN.

C-9. Delta Range (M224 60mm mortar).

a. Location: Off Dixie Road at BT 8351 0794.

b. Description: Direct lay and hand-held M224 60mm mortar fire. Firing line is raised, fire allowed from up to 3 evenly spaced, bipod mounted or hand-held mortar systems. The impact area is extremely small and small errors in gunnery can be very dangerous. It is very important that direction limits and range limits be strictly adhered to.

c. Ammunition Authorized: HE, WP, illumination.

d. Ammunition Handling: Break down only the amount of ammunition needed to prevent problems with returning it to the ASP. All ammunition will be handled IAW TM 9-1300-206.

RANGE AND TRAINING FACILITY DATA SHEETS

e. Firing Positions: 3.

f. R-4102 Restricted Airspace: The airspace must be activated with the Federal Aviation Administration (FAA). Mortars cannot fire unless R4102A/B are activated. Range Control will not accept requests for mortar fire less than 14 working days prior. Airspace is controlled as follows:

(1) R-4102A is from surface to 1995 feet above Mean Sea Level (MSL). R-4102B is from 2000 feet to 3995 feet above MSL. Both must be activated for any projectile with a maximum ordinate of 45 meters or more.

(2) Commercial and civilian air traffic will be routed 1000 feet above the activated airspace.

(3) The maximum ordinate above rounds fired will not exceed 3995 feet above MSL.
NOTE: THIS ALLOWS FIRE ONLY TO A MAXIMUM ORDINATE OF 3740 FEET BECAUSE OF THE RANGE ALTITUDE.

(4) Minimum cloud bottom altitude must be 5000 feet above MSL. If the cloud bottom is less, firing will not take place until the clouds lift. Mortar projectiles will not enter the clouds.

(5) R-4102 covers all of South Post to include the Oxbow Wildlife Refuge. All civilian aircraft are denied use of the airspace when mortar fire is scheduled. Military helicopters may have limited use of airspace **ONLY WITH PRIOR COORDINATION WITH RANGE CONTROL, AND ONLY WEST OF SHIRLEY ROAD.**

(6) Range Control must notify the FAA one hour prior to the first round downrange. A voluntary checkfire of one hour or longer requires that the airspace be returned to the FAA. The airspace cannot be reactivated that day.

(7) An air observer will be posted to watch for aircraft. If aircraft are observed in the airspace, cease fire immediately and notify Range Control. Private civilian aircraft and pilots may not heed posted Notice to Airman (NOTAM). If possible, record registration number from plane fuselage and report it to Range Control.

g. Required Publications: As a minimum, copies of the following must be available on the range:

(1) AR 385-63, Policies and Procedures for Firing Ammunition for Training, Target Practice and Combat.

(2) FM 23-90, Mortars.

(3) FM 23-91, Mortar Gunnery.

RANGE AND TRAINING FACILITY DATA SHEETS

- (4) Firing Tables FT 60-P- 1.
- (5) Technical Manual 9-1010-233-10.
- (6) DA PAM 385-64, Ammunition and Explosives Safety Standards.
- (7) Devens RFTA Regulation 350-2, Training: Ranges, Training Facilities and Training Areas.

h. Minimum Equipment Required:

- (1) Ten pound B/C fire extinguisher
- (2) Radios
- (3) Map of range and impact area
- (4) Mortar safety card
- (5) Firing tables (tabular)
- (6) M45 boresight
- (7) Ammunition repack cards (if used)

i. Misfires:

(1) Actions outlined in AR 385-63, FM 23-90 and TM 9-1010-233-10 must be followed. Misfires will be inspected for damage after removal from the cannon. If the round appears serviceable and the primer is not dented, attempt to fire it again. If it does not fire a second time, replace the safety wire and place the round in the misfire pit. If the primer is dented, replace the safety wire and immediately place the round in the misfire pit. **DO NOT ATTEMPT TO RE-FIRE ANY ROUND THAT APPEARS DAMAGED OR HAS A DENTED PRIMER.** Misfires will be re-packed and returned to the ASP, without increments attached.

(2) Explosive Ordinance Disposal (EOD) will be notified if there is a round lodged in the cannon that cannot be removed by prescribed methods. All EOD support comes from New Jersey.

j. Short Rounds: If a short round occurs, firing will cease immediately and Range Control notified. Firing will not resume until the cause is determined and corrected. **IF A DUD SHORT ROUND IS IN CLOSE PROXIMTY TO THE RANGE, DO NOT GO FORWARD OF THE FIRING LINE TO LOOK FOR IT.**

RANGE AND TRAINING FACILITY DATA SHEETS

k. Duds: Using the firing data, plot the probable point of impact. If the location or cause cannot be determined, notify Range Control immediately.

l. Burning Increments: All munitions will be a minimum of 100 meters from the burn site. **DO NOT INHALE FUMES OR ASH, OR ALLOW THEM TO COME IN CONTACT WITH EXPOSED SKIN. DO NOT LOOK DIRECTLY AT THE BURNING INCREMENTS.** Burn no more than 50 increments at one time

m. Ammunition Accountability: Range Control will be provided with a copy of DA Form 581 (Ammunition Issue) when the OIC signs for the range. To clear the range, the OIC will give Range Control an Ammunition Consumption Certificate, an increment burn count, and the location of any duds.

n. OIC Responsibilities: In addition to the responsibilities outlined elsewhere in the regulation, ensure all mortar equipment is functioning properly, and establish and maintain radio communication with Range Control. Call an immediate cease-fire if communication is lost.

o. RSO Responsibilities:

(1) Check all rounds for the proper number of increments. The maximum charge is charge 2. The minimum charge is 1.

(2) Record accurate count of increments prior to burning. Ensure proper and safe burning.

(3) Ensure cannons are always aligned within the safety fan and that elevation is within the safety limits (See Survey and Safety Data below).

(4) Ensure that all guns are boresighted; all gunners and assistant gunners know the left and right boundaries, and minimum and maximum ranges and elevations. The first round(s) should be fired center of sector to settle the baseplate or assault plate.

p. Actions Before Firing:

(1) Verify that the safety card applies to the exercise.

(2) Verify that the firing position is the same as shown on the safety card.

(3) Verify the lay of the guns.

(4) Verify the left and right limits, data for minimum and maximum elevation (range).

(5) Inform all personnel of the left and right limits, the minimum and maximum ranges and charges, and the minimum and maximum charges.

RANGE AND TRAINING FACILITY DATA SHEETS

(6) Check overhead clearance and mask. Make safety checks on all gun systems and ensure sights are properly seated.

(7) Protect ammunition from sunlight and/or moisture, and ensure that it is stored IAW DA PAM 385-64.

(8) VERIFY THAT THE FIRING TABLES AND AMMUNITION MATCH.

q. Survey And Safety Data

(1) Location: BT 8351 0794.

(2) Altitude: 255 feet (78 meters).

(3) Maximum range: 1050 meters LEFT/RIGHT LIMITS: Marked by red and white limit Markers approximately 100m downrange.

(4) Minimum range: 600 meters

(5) Maximum charge: 2

(6) Minimum charge: 1

(7) Maximum ordinate: 3995 feet above MSL 3740 feet (1140 meters) above the range

(8) Minimum cloud base altitude: 5000 feet above MSL

(9) Authorized ammunition: HE M720 Fuse, MO M734
HE M49A4 Fuse, PD M525
WP M302AI Fuse, PD M527
IL M83A3 Fuse, Time M65AI

C-10. Delta Range (Pistol).

a. Location BT 8351 0794

b. Description: Pistol, shotgun, SMG, law enforcement weapons qualification.

c. Ammunition Authorized: All handgun ammunition, rifle not over 5.56 mm, and all shotguns except riot agents.

d. Target Paper: Non-military may use Range Control frames but supply their own targets.

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Nothing thrown in the air or lying on the ground will be shot.

- e. Facilities: Ammo breakdown point, portable latrine.
- f. Equipment Required: Ten pound B-C fire extinguisher, FM and TM for weapons, AR 385-63, score cards, hearing/eye protection, range packet from Range Control.
- g. Range Flag Pole: At range entrance.
- h. Communications: FM radio 38.85.
- i. Firing Line: 15 target frames. TARGET FRAMES WILL NOT BE REMOVED OR ADDED WITHOUT PERMISSION FROM RANGE CONTROL. Targets will only be stapled to the backer board, not to the frames.
- j. Restrictions: No rifle fire at hard targets in the impact area.

C-11. Echo Range.

- a. Location: Off Dixie Road at BT 8340 0829.
- b. Description: Automated Record Fire Range, sixteen fighting position/prone supported positions. Targets at 50, 100, 150, 200, 250, and 300 meters.
- c. Ammunition Authorized: 5.56, 7.62 ball.
- d. Targets: Air powered pop-up, computer scored.

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e. Facilities: Tower with public address system, bleachers, latrine, ammo table. Bivouac is authorized with Range Control approval.

f. Range Flag Pole: Rear of range beside Dixie Road.

g. Communications: FM radio 38.85

h. Equipment Required: Ten pound B-C fire extinguisher, radio(s), FM 23-9, technical manuals on weapons, safety paddles, range packet issued by Range Control, hearing protection.

i. Personnel Requirements: OIC, RSO, one (1) safety NCO per 4 firing points minimum, tower operator, radio operator, ammo NCO.

j. Restrictions:

(1) Unit personnel will not touch target machines or wiring.

(2) Unit personnel are not to go forward of the firing line.

(3) No automatic or burst firing.

(4) Lanes 1-5 may not be used if Delta Range forward berm is occupied. Lane 1 may not be used if Delta Range is firing the MK 19 GL using HE.

(5) Pyrotechnics will not be used without permission from Range Control on a daily basis. Tracers may be denied according to the fire index.

C-12. Golf Range.

a. Location: Off Dixie Road at BT 8327 0946.

b. Description: Known distance range with 38 firing points. Firing lines are located at 100, 200, 300 meters, and 100 through 600 yards. Target carriages are the cantilever type.

c. Ammunition Authorized: 5.56, 7.62, .30 cal ball.

d. Targets: Army and Marine Corps KD qualification type, NRA competition.

e. Facilities: Target sheds, portable latrine, cantilevered target carriers.

f. Range Flag Pole: At the right rear of the range.

g. Communications: FM radio 38.85

h. Personnel Requirements: OIC, RSO, Pit NCO, radio operator, firing line safety NCO's.

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i. Equipment Required: Wire or radio communication between firing line and pits, (radio communication will not be on a Range Control frequency), safety paddles, ten pound B-C fire extinguisher, hearing protection, FM and TM for weapons.

j. Restrictions:

(1) Vehicles will not drive on or across firing lines. Communications vehicle, if needed, may park to the rear of the active firing line, ammo and weapons vehicles will remain on the trail to the right or left of the firing lines. All others will park to the rear of the range next to Dixie Road.

(2) Pit personnel will wear helmets.

(3) No automatic or burst fire.

C-13. Golf-Alpha Range (GA) Immediate Action Drills (IAD).

a. Location: BT 8314 0950 on the west side of Jackson Road next to Golf Range.

b. Description: Multipurpose use. Field fire machine gun, IAD exercises.

c. Ammunition Authorized: Handgun, 5.56, 7.62, 40mm TP, shotgun.

d. Targets: None installed, unit must put in place. Paper targets only or E-type silhouettes. Targets will not be placed on the M203 targets; mount targets on wood stakes, no targets will be mounted on steel pickets.

e. Facilities: Tower with PA system, portable latrine.

f. Range Flag Pole: At the right rear of the range.

g. Communications: FM radio 38.85

h. Firing Line: There is no established firing line.

i. Equipment Required: Ten pound B-C fire extinguisher, radio, FM/TM on weapons systems, AR 385-63, range packet issued by Range Control, hearing protection.

j. Restrictions: (1) Range gate 1 at the range entrance on Jackson Road and gate 2 west of Hotel Range on Turnpike Rd must be closed and locked. Range gates 3 and 5 on the north and south ends of Firebreak Road will be locked. Road guards are not required.

(2) Downrange Hotel Range, Zulu Ranges and EOD Range are denied.

(3) All IAD exercises require a written scenario, showing all firing positions, and weapons submitted to Range Control for approval.

(4) Use of pyrotechnics requires daily approval from Range Control.

(5) Demolitions and claymore mines not authorized.

k. Remarks: Plastic residue and fuse booster bases of 40mm TP will be policed up and removed.

C-14. Golf-Alpha Range (G-A) 25-meter M16 and Pistol.

- a. Location: Off Jackson Road at BT 8314 0950.
- b. Description: 25 meter M16 zero/qualification, 48 prone firing positions, no foxholes. 12 pistol firing points.
- c. Ammunition Authorized: 5.56, 7.62, handgun up to .45 cal
- d. Targets: M16A1/A2 zero and alternate course C targets. Pistol targets.
- e. Facilities: Target shed, portable latrine.
- f. Range Flagpole: Right rear of the range.
- g. Communications: FM radio 38.85.
- h. Equipment Required: Radio, ten pound B-C fire extinguisher, FM and TM for weapons, AR 385-63, range packet from Range Control, hearing protection.
- i. Restrictions: No automatic or burst fire. Range gate at left end of berm must be closed and locked.
- j. Parking: Vehicles may park on the range but ruts will be repaired before clearing.

C-15. Golf-Alpha Range (G-A) M203 TP Qualification.

- a. Location: Off Jackson Road at BT 8314 0950
- b. Description: M203 TP 40mm qualification range.
- c. Targets: As shown in FM 23-31 and TC 25-8.
- d. Ammunition Authorized: THE ONLY AMMUNITION ALLOWED IS 40MM TP AND ILLUMINATION ROUNDS. NO OTHER 40MM AMMUNITION WILL BE FIRED ON THIS RANGE.
- e. Facilities: Tower.

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- f. Firing Line: As shown in FM 23-31 and TC 25-8.
- g. Communications: FM radio 38.85
- h. Equipment Required: Ten pound B-C fire extinguisher, radio, FM 23-31, TM 9-1010-221-10, AR 385-63, range packet from Range Control, goggles, hearing protection.
- i. Parking: Rear of the range. Ruts will be repaired before clearing.
- j. Restrictions:
 - (1) Range gate at left rear of range will be closed or a range guard posted at the gate to prevent personnel entering the downrange area. Range gate at the Golf range butts will be closed and locked. Firers will have sleeves down and wear goggles. ANY UNIT OR PERSONS CAUGHT FIRING UNAUTHORIZED AMMUNITION WILL BE IMMEDIATELY REMOVED FROM THE RANGE AND THE RANGE CLOSED. OIC AND SAFETY OFFICER WILL BE DECERTIFIED. EVIDENCE OF SUCH ACTS FOUND AFTER CLEARING WILL BE GROUNDS FOR DECERTIFICATION.
 - (2) Firers are required to wear goggles, helmets, and roll down sleeves when firing TP.

C-16. Hotel Range.

- a. Location: BT 8267 0985.
- b. Description: SAW/M60 Transition Range.
- c. Ammunition Authorized: 5.56/7.62mm.
- d. Targets: Enhanced Remote Target System using computer controlled and scored pop-up targets. Four lanes with 14 targets each from 100 to 800 meters. Four foxhole machinegun positions.
- e. Facilities: 50 foot tower with observation platform below the operations room, portable latrine, ammo shed, PA system.
- f. Range Flag Pole: One at the range entrance and one on the range tower. Two (2) flags are required.
- g. Communications: FM radio 38.85. The unit may want to use extra radios on a unit frequency to communicate from the firing line to the OIC in the tower.
- h. Equipment Required: See paragraph C-16 below.
- i. Restrictions: No night fire unless using NODS. No chemlights or anything else will be fastened to the targets day or night. If using NODS, the unit will provide the tower operator with a set for safety. The operator must be able to see that rounds are staying in the target area or the range will not operate. THIS RANGE HAS A FORSCOM SAFETY WAIVER IN EFFECT. The range operating procedures will be followed for machinegun firing in order to comply with the waiver. M60 WILL NOT BE FIRED AT TARGETS CLOSER THAN 400 METERS. NO PYROTECHNICS WITHOUT RANGE CONTROL PERMISSION ON A DAILY BASIS. TRACER MAY BE DENIED ACCORDING TO FIRE CONDITIONS. NO TARGETS, OTHER THAN WHAT IS INSTALLED, WILL BE PLACED ON THE RANGE.
- j. Parking: Parking area is to the rear of the range across from the maintenance building. The ammo and weapons vehicles may drive up to the vicinity or the ammo table to unload but will not remain parked there. DO NOT DRIVE VEHICLES UP THE EMBANKMENT TO THE FIRING LINE.

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C-17. OPERATING PROCEDURES FOR HOTEL RANGE

a. Purpose: To prescribe the policies and procedures governing the conduct of live fire on the SAW/M60 machine gun transition range.

b. Scope: This applies to all personnel firing on Hotel Range.

c. Description: This is a four lane, live fire machinegun qualification/transition range. Each lane has 14 computer controlled target machines with E-type silhouettes, located from 100 to 800 meters. All are single targets except the 800-meter line, which has 4 targets per lane. Due to the lane configuration, targets are alternating colors to ensure lane identification (lane 1 may be black, lane 2 may be white, etc.).

d. Equipment Requirements: Except as indicated, all the following equipment will be supplied by the unit:

- (1) Devens RFTA Reg 350-2.
- (2) Appropriate FM and TM for weapons systems and AR 385-63.
- (3) Range flags (Range Control).
- (4) Safety paddles (Range Control).
- (5) Radios.
- (6) Hearing protection.
- (7) Weapon accessories as required by FM and TM.
- (8) Ten pound B-C fire extinguisher.
- (9) One cleaning rod per lane.
- (10) Four stakes and wire per weapon (to stake down bipod).
- (11) Range packet issued by Range Control.

e. Personnel Requirements:

- (1) Range Tower Operator (provided by unit)
- (2) OIC
- (3) Safety Officer

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(4) Lane Safety Officers (one per lane)

(5) Unit armorer

(6) Ammo NCO and detail

f. Uniform Requirements: As prescribed by the commander, helmets are the commander's option.

g. Responsibilities:

(1) Range Inspector

(a) Ensure the range targetry and computer are operational and running prior to unit arrival.

(b) Brief tower operator and coordinate with the OIC as to scenarios to be run.

(c) Ensure that the OIC has briefed all personnel on safety and duties and that all safety requirements are complied with.

(d) Ensure that proper police and maintenance is performed before releasing the unit.

(e) Ensure the left and right limit markers are visible and determine if weather conditions permit safe firing. IF THE 800 METER LIMIT MARKERS ARE NOT CLEARLY VISIBLE, FIRING WILL NOT BE PERMITTED.

(2) Range OIC: Specific duties include, but are not limited to:

(a) Familiarization with and responsibility for compliance with all applicable FM and TM for the weapons systems and course of fire, and Devens RFTA Reg 350-2. Ensure all support personnel are familiar with the same.

(b) Be physically present on the range when firing is being conducted, ensure all support personnel are also present during firing.

(c) Ensure that safety gates 1, 2, 3, 4, 5, 6, 7 are locked and verify with Range Control before firing commences.

(d) Ensure all persons receive a safety and dud briefing, to include latecomers.

(e) Establish and maintain communications with Range Control. Call an immediate cease fire if communications are lost.

(f) Ensure that downrange is clear of personnel and vehicles before firing. Turnpike Road runs through the range at the 400-meter line and a road through the impact area accesses

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the range at the 800 meter line. Maintain constant surveillance downrange.

(g) Cease fire for aircraft downrange and notify Range Control.

(h) Report to Range Control immediately any accidents or malfunctions involving weapons or ammunition. In the event of an accident or injury involving a weapon or ammunition, the scene will be preserved "as is" until investigation by the appropriate personnel. Treatment and/or evacuation of injured personnel will always have first priority.

(i) If using an armed ammo point NCO, provide that person a "USE OF DEADLY FORCE" briefing within 24 hours prior to opening the range.

(3) Range Safety Officer: Specific duties include, but are not limited to:

(a) Responsibility for being familiar with and complying with Devens RFTA Reg 350-2, FM and TM for the weapons systems and course of fire.

(b) Be physically present on the firing line during firing and ensure all safety personnel are present.

(c) Maintain constant downrange surveillance for persons, vehicles, or aircraft. Issue an immediate cease-fire, if necessary.

(d) Ensure that each lane safety NCO has a clear line of sight to all targets in his lane and the range limit markers.

(e) Ensure that gunners do not fire at any target not in their lane.

(f) Verify that lanes are safe to fire prior to firing and safe after a cease fire or check fire is given.

(g) Maintain communications with the OIC and lane safety NCOs.

(h) Ensure that all M60 bipods are staked down and there are four (4) inches of sandbags under the butt of the weapon. Ensure that no weapon can be fired at an elevation in excess of 51 mils.

(i) Ensure that no weapon is handled in such a manner that a round may be fired outside the range limits or over the hill behind the 800 meter line.

(j) Ensure that all weapons are rodded and cleared before removal from the firing line.

(k) Ensure that all misfires, jammed weapons, or runaway weapons are handled safely and IAW the appropriate manuals.

(l) Ensure that the range flags are raised during the day. If firing at night, the range

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limit markers will be marked with flashing red lights issued by Range Control or unit supplied red chemical lights. Ensure all NODS are operational and a set is supplied to the range operator in the tower.

(m) Call an immediate cease fire if the limit markers are not visible.

(n) Ensure that no one goes forward of the firing line when the range is hot or until all weapons are clear.

(o) Ensure that all weapons not on the firing line are on mechanical safe, feedtray covers are open.

(p) Rod all weapons before they leave the line.

(4) Lane Safety NCO: Specific duties include, but are not limited to:

(a) Responsibility for being familiar and complying with Devens RFTA Reg 350-2, and appropriate FM and TM for the weapons systems.

(b) Ensure that gunners can identify their targets in their lanes, and the range limit markers are visible and are pointed out to gunners.

(c) Ensure weapons cannot be fired in excess of 51 mils of elevation, there are 4 inches of sandbags under the butt of the weapon, M60 bipods and staked down, and weapons are not handled in any manner that may cause a round to be fired outside the assigned lane, the range limits, or over the hill to the rear of the 800 meter line.

(d) Ensure the gunner can hear and understand commands from the tower.

(e) Ensure weapons at the firing point but not in use are behind the firing line with feedtray covers open, on mechanical safe, and clear.

(f) Rod all weapons and clear them before removal from the firing line. Ensure that weapons are carried at "HIGH PORT", pointed downrange, to the center of the firing line where the Range Safety Officer will rod them again before the weapon leaves the firing line.

(g) Ensure all misfires, jams, runaway weapons are handled in a safe manner IAW instructions in the TM.

(h) Ensure no one goes forward of the firing line when the range is hot or before weapons are cleared.

(5) Ammo NCO: Specific duties include, but are not limited to:

(a) Responsibility for being familiar and complying with Devens RFTA Reg 350-2, FM and TM for the weapons systems and course of fire, and applicable publications governing

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handling and storage of ammunition.

(b) Ensure the ten pound B-C fire extinguisher is present, filled and the inspection tag up-to-date.

(c) Ensure all damaged or misfired ammunition is identified and separated from serviceable ammunition.

(d) Ensure all ammunition and residue is accounted for and returned to the ASP as required. Will safeguard ammunition at all times.

(e) Comply with the "USE OF DEADLY FORCE" briefing guidelines, if necessary.

h. General Instructions: The provisions of Devens RFTA Reg 350-2, and AR 385-63, and any supplemental instructions from Range Control, will govern all firing exercises. In addition:

(1) All persons firing qualification will have zeroed and qualified on the 10 meter range first.

(2) All gun crews will know how to deal with misfires, jams, and runaway guns before firing.

(3) Safety precautions and procedures in applicable manuals will be adhered to.

(4) All firing will be within the range limit markers, and within the assigned lane.

(5) No rounds will be fired so as to impact short of the minimum range or beyond the maximum range. M60 WILL NOT BE FIRED AT TARGETS CLOSER THAN 400 METERS.

(6) The maintenance building, and any other storage container or structure, or supply storage areas are OFF LIMITS to unit personnel.

(7) Range Control headquarters is the only authority for the range to go to a hot status. Radio communication will be maintained and constantly monitored by the unit.

(8) Ammunition will not normally be stored on the range overnight. Case-by-case exceptions may be made by Range Control only. Overnight ammunition guards will have radio communications with Range Control.

C-18. Kilo Range.

- a. Location: BT 8339 0858 off Dixie Road.
- b. Description: 25 meter zero/qualification. Zero range for Echo Range. Thirty five (35) prone firing positions.
- c. Ammunition Authorized: 5.56, 7.62, 9mm.
- d. Targets: M16A1/A2 25 meter zero and alternate course C targets.
- e. Facilities: Bleachers, target ammo shed, portable latrine, tower.
- f. Range Flag Pole: Rear of range.
- g. Communications: FM radio 38.85.
- h. Equipment Required: Radio, ten pound B-C fire extinguisher, FM and TM for weapons, AR 385-63, range packet from Range Control.
- i. Restrictions: No automatic or burst fire.
- j. Parking: Across Dixie Road. Communications vehicle may park on the range.

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C-19. Oscar Range.

- a. Location: BT 8356 0761.
- b. Description: Mortar firing point for 60mm, 81mm. The impact area is extremely limited and small errors in gunnery can be very dangerous. Training areas and ranges are less than 800 meters beyond the impact area. It is very important that all data be correct.
- c. Facilities: Bleachers, covered ammo breakdown point. No latrine.
- d. Ammunition Authorized: HE, WP, Illumination, Sabot round.
- e. Ammunition Handling: Breakdown only the amount of ammo needed in order to prevent problems with returning it to the ASP. Ammunition will be handled IAW DA PAM 385-64.
- f. Firing Positions: 4
- g. Observation Point (OP): The OP will be located at either Delta Range at BT 8351 0794 or on Echo Range at BT 8340 0829.
- h. R-4102 Restricted Airspace: The airspace must be activated with the Federal Aviation Administration (FAA). Mortars cannot fire unless R-4102A/B is activated. Range Control will not accept requests for mortar fire less than 14 working days out. Airspace is controlled as follows:
 - (1) R-4102A is from surface to 1995 feet above Mean Sea Level (MSL). R-4102B is 2000 feet to 3995 feet. Both must be activated for any projectile with a maximum ordinate of 45 meters or more.
 - (2) Commercial air traffic will be routed 1000 feet above the activated airspace.
 - (3) Maximum ordinate of rounds fired will not exceed 3995 feet above MSL.
NOTE: THIS ALLOWS A MAXIMUM ORDINATE OF 3,740 FEET DUE TO THE ALTITUDE OF THE RANGE.
 - (4) Minimum cloud bottom altitude must be 5,000 feet MSL. If the cloud bottom altitude is less, firing will not take place until the clouds lift. Mortar projectiles will not enter clouds.
 - (5) R-4102 covers all of South Post to include the Oxbow Wildlife Refuge. Aircraft are denied use of the airspace when mortar fire is scheduled.
 - (6) Range Control must notify the FAA one hour prior to the first round downrange. A checkfire of one hour or more requires the airspace to be returned to the FAA. The airspace cannot be reactivated that day.

(7) An air observer must be posted to watch for stray aircraft. If aircraft are observed in the airspace, cease firing immediately and notify Range Control. Private civilian aircraft may not heed posted Notice to Airmen (NOTAM).

i. Declination Station: Located on Whittemore Hill (Hill 455) at 444 feet, coordinates BT 8122606525. It is a small brass disc set in concrete. See Figure 1 for declination diagram.

j. Required Publications: Appropriate TM and FM for the weapons systems must be on the range. Some that are required are:

(1) AR 385-63, Policies and Procedures for Firing Ammunition for Training, Target Practice, and Combat.

(2) FM 23-91, Mortar Gunnery.

(3) FM 23-90, 60mm Mortar, Firing Tables 60-P-1, TM 9-1010-223-10.

(4) FM 23-90, 81mm Mortar, Firing Tables 81-A1-3.

(5) FM 23-90, 4.2 inch Mortar, Firing Tables 60-Q-1, TM 9-1015-215-12.

(6) DA PAM 385-64, Ammunition and Explosives Safety Standards.

(7) Devens RFTA Regulation 350-2, Training; Ranges, Training Facilities, and Training Areas.

k. Duds: Using the firing data, plot the location where the dud is suspected to have impacted. If the dud cause or location cannot be determined, notify Range Control immediately.

l. Minimum Required Equipment:

(1) Ten pound B-C fire extinguisher.

(2) Radios.

(3) Map of range and impact area.

(4) Mortar safety card.

(5) Firing Tables (tabular).

(6) Aiming circle.

(7) Gunners bore sight device M45.

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(8) Mounting grid azimuth or orienting angle.

(9) Ammunition repack cards (if used).

m. Burning Increments: Burning will only be done in the burn barrel provided. Nothing else will be burned in the barrel. Residue will be properly disposed of. All munitions will be a minimum 100 meters from the burn site. **DO NOT INHALE FUMES OR ASH OR ALLOW TO COME IN CONTACT WITH EXPOSED SKIN.** Burn no more than 50 increments at one time.

n. Misfires:

(1) Actions outlined in AR 385-63, FM 23-90, and FM 23-92 must be followed. Misfires will be placed in a sandbagged pit with safety pins re-inserted. Misfires will be returned to the ASP.

(2) Explosive Ordnance Disposal (EOD) will be notified if there is a round lodged in the tube that cannot be removed by prescribed methods. All EOD support must come from New Jersey.

o. Short Rounds: If a short round occurs, firing will cease immediately and Range Control notified. Firing will not resume until the cause is determined and corrected. **IF A DUD SHORT ROUND IS IN CLOSE PROXIMITY TO THE RANGE, DO NOT GO FORWARD OF THE FIRING LINE TO LOOK FOR IT.**

p. Ammunition Accountability: Range Control will be provided a copy of the DA Form 581, Ammunition Issue, when the OIC signs for the range. To clear the range, the OIC will give Range Control an Ammunition Consumption Certificate, an increment burn count, and the location of any duds.

q. OIC Responsibilities: In addition to responsibilities outlined elsewhere in this regulation, ensure all mortar equipment is functioning properly. Physically check the OP before firing. Establish and maintain communications with Range Control and the OP. Call an immediate cease fire if communications with either is lost.

r. RSO Responsibilities:

(1) Check all rounds for the proper number of increments. **THE MAXIMUM CHARGE IS CHARGE 3 FOR 60MM, 4.2 INCH SUB-CAL, AND 81MM.**

(2) Ensure a count and recording of increments prior to burning. Ensure proper and safe burning.

(3) Ensure all data is correct and correctly placed on the gun(s).

(4) Ensure that aiming circles are declinated properly.

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(5) Ensure that the safety fan is entered in RED on the firing chart and turned over to Range Control upon clearing.

(6) Ensure that a Fire Direction Center (FDC) is used and staffed with at least two plotters.

(7) Ensure that all guns are bore sighted, all gunners know the left and right boundaries, and that the first round is fired center of sector.

s. Actions Before Firing:

(1) Verify the mortar safety card applies to the exercise.

(2) Verify the firing position is the same as shown on the safety card.

(3) Verify the laying of the guns.

(4) Verify computation of the left and right safety limits.

(5) Verify the FDC firing chart and plotting board.

(6) Inform all safety personnel and gunners of the right and left safety limits, the maximum and minimum elevations and charges, and minimum fuse settings.

(7) Check overhead clearance and mask. Make safety checks of all guns and ensure sights are properly seated.

(8) Protect ammunition from sunlight and moisture.

(9) VERIFY THAT THE FIRING TABLES AND AMMUNITION MATCH.

t. Survey and Ammunition Data:

u. Survey Date: 18 May 1989 by the Fort Drum Artillery Survey Team.

v. Oscar Range Survey Point: BT 8327507404

w. Oscar Range Altitude: 78 meters (255 feet)

x. Mortar Pit #2: BT 8328707412

(1) LEFT LIMIT AZIMUTH:	5225 MILS (GRID)
(2) RIGHT LIMIT AZIMUTH:	5633 MILS (GRID)
(3) AZIMUTH TO CENTER SECTOR:	5429 MILS (GRID)
(4) MOUNTING AZIMUTH:	5400 MILS (GRID)
(5) MINIMUM RANGE:	700 meters

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- (6) MAXIMUM RANGE: 1304 meters
- (7) MAXIMUM ORDINATE: 1140 meters
- (8) MINIMUM CLOUD BASE ALTITUDE: 1524 meters (5000 feet)
- (9) MAXIMUM CHARGE: Charge 3

y. For Illumination Only

- (1) MAXIMUM RANGE TO BURST 1304 meters
- (2) MAXIMUM RANGE TO IMPACT: 1609 meters
- (3) MAXIMUM CHARGE: 4
- (4) ALL OTHER DATA AS ABOVE.

z. Authorized Ammunition:

- (1) 60mm: HE M720 Fuse, MO M734
 HE M49A4 Fuse, PD M525
 WP M302A1 Fuse, PD M527
 IL M83A3 Fuse, Time M65A1
- (2) 81mm: HE M374A2 Fuse, PD M567
 HE M374A3 Fuse, PD M567
 WP M375A2 Fuse, PD M567
 RP M819 Fuse, MTSQ M772
 IL M301A3 Fuse, Time M84A1

aa. Declination Diagram: The declination station is located in Area 6C, Whittemore Hill. The station is marked with a brass control point lain in concrete flush to the ground, on the east side of the hilltop, approximately 20 meters from the crest of the hill. It may be necessary to clear some brush to locate the declination points.

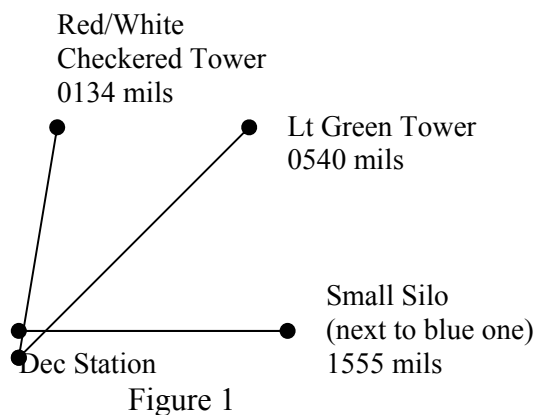


Figure 1

C-20. Papa Range

- a. Location: BT 8338 0866 off Dixie Road
- b. Description: Multipurpose small arms use. Handguns, shotguns, sub-machine guns.
- c. Ammunition Authorized: All handguns up to .45 cal, shotgun, 5.56 ball.
- d. Targets Authorized: Paper in fixed frames
- e. Facilities: Target shed, tower, portable latrine, ammo shed.
- f. Range Flag Pole: Rear of range next to Dixie Road.
- g. Communications: FM radio 38.85
- h. Equipment Required: Ten pound B-C fire extinguisher, FM and TM for weapons, AR 385-63, range packet from Range Control, radio, hearing protection.
- i. Restrictions: All targets will be properly frame mounted, nothing will be thrown in the air to shoot at. Objects lying on the ground will not be shot.
- j. Parking: Across Dixie Road.

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C-21. Tango/FBI Range

- a. Location: Off Trainfire Road at BT 8341 0717.
- b. Description: 25 meter rifle range. The left half of this range is allocated to the FBI and will not be used by anyone else without the expressed permission of the FBI and Range Control.
- c. Targets: M16A1/A2 zero and alternate course C.
- d. Ammunition Authorized: 5.56, 7.62 ball, handgun up to .45 cal.
- e. Facilities: Target shed, tower with PA system, ammo shed, portable latrine, bleachers.
- f. Firing Line: 23 fighting positions/prone supported or unsupported positions.
- g. Range Flag Pole: Right rear of the range.
- h. Communications: FM radio 38.85.
- i. Equipment Requirements: Ten pound B-C fire extinguisher, FM and TM for weapons, score cards, AR 385-63, range packet from Range Control, safety paddles, hearing protection.
- j. Restrictions: No automatic or burst fire. FBI TARGETS AND EQUIPMENT ARE OFF LIMITS.
- k. Parking: All vehicles, except a communications vehicle, park across Trainfire Road.
- l. Remarks:
 - (1) Aircraft departing Turner Drop Zone may fly directly overhead. Range Control will call a checkfire when aircraft are 5 minutes from Time On Target (TOT). Radio must be constantly monitored.
 - (2) Night fire is authorized. Unit must provide target illumination. Pyrotechnics will not be used without Range Control permission on a daily basis.

C-22. Uniform I Range.

- a. Location: Off Trainfire Road at BT 8328 0703..
- b. Description: 25 meter zero/alternate course C qualification.
- c. Targets: M16A1/A2 zero and alternate course C.
- d. Ammunition Authorized: 5.56, 7.62 ball, handgun up to .45 cal.
- e. Facilities: Target shed, tower with PA system, ammo table, bleachers, portable latrine.
- f. Firing Line: 50 fighting positions/prone supported and unsupported positions.
- g. Range Flag Pole: At right rear of the range.
- h. Communications: FM radio 38.85.
- i. Equipment Requirements: Ten pound B-C fire extinguisher, FM and TM for weapons, safety paddles, AR 385-63, range packet from Range Control, score cards, hearing protection.
- j. Parking: Across Trainfire Road. Communications vehicle may park on the range.
- k. Restrictions: No automatic or burst fire.
- l. Remarks:

(1) Aircraft departing Turner Drop Zone may overfly the range. Range Control will call a checkfire 5 minutes before the aircraft Time on Target (TOT). The radio must be constantly monitored.

(2) Night fire authorized. Unit must provide target illumination. Pyrotechnics will not be used without Range Control permission on a daily basis.

RANGE AND TRAINING FACILITY DATA SHEETS

C-23. Uniform II Range.

- a. Location: Trainfire Road at BT 8317 0690.
- b. Description: 25 meter zero/alternate course C qualification.
- c. Targets: M16A1/A2 zero and alternate course C.
- d. Ammunition Authorized: 5.56, 7.62 ball, handgun up to .45 cal.
- e. Facilities: Bleachers, ammo table, tower with PA system, target shed, portable latrine.
- f. Firing Line: 50 fighting positions and prone supported/ unsupported positions.
- g. Range Flag Pole: At the right rear of the range.
- h. Communications: FM radio 38.85
- i. Equipment Requirements: Ten pound B-C fire extinguisher, FM and TM for weapons, score cards, safety paddles, AR 385-63, range packet from Range Control, hearing protection.
- j. Restrictions: No automatic or burst fire.
- k. Parking: Across Trainfire Road. Communications vehicle may park on the range.
- l. Remarks:
 - (1) Aircraft departing Turner Drop Zone may overfly the range. Range Control will call a checkfire when aircraft are 5 minutes from TOT. Radio must be constantly monitored.
 - (2) Night fire authorized. Unit must provide target illumination. Pyrotechnics will not be used without permission from Range Control on a daily basis.

C-24. Victor Range.

- a. Location: Trainfire Road at BT 8298 0671.
- b. Description: M16 record/NBC/night fire range with air powered pop-up targets.
- c. Targets: Silhouettes air powered with muzzle flash indicators for night fire. Electronic scoring, computer operated.
- d. Ammunition Authorized: 5.56, 7.62 ball.
- e. Facilities: Target shed, portable latrine, tower with PA system, bleachers
- f. Firing Line: 16 positions for record fire.
- g. Range Flag Pole: At the right rear of the range.
- h. Communications: FM radio 38.85.
- i. Equipment required: Ten pound B-C fire extinguisher, FM and TM for weapons, safety paddles and/or flashlights with appropriate lenses, AR 385-63, range packet from Range Control, hearing protection.
- j. Restrictions: No automatic or burst fire.
- k. Parking: Across Trainfire Road. Communications vehicle may park on the range.
- l. Remarks:
 - (1) Unauthorized persons will not tamper with machines or attempt repairs.
 - (2) Nightfire requires a red flashing light or red chemical light at right and left limit markers and on the flagpole or tower. The range has emergency lighting. Pyrotechnics will not be used without permission from Range Control on a daily basis.
 - (3) Aircraft departing Turner Drop Zone may overfly the range. Range Control will call a checkfire when aircraft are 5 minutes from TOT. Radio must be constantly monitored.

RANGE AND TRAINING FACILITY DATA SHEETS

C-25. X-Ray I Range.

- a. Location: Trainfire Road at BT 8278 0650.
- b. Description: 25 meter zero/alternate course C qualification.
- c. Targets: M16A1/A2 zero and alternate course C qualification.
- d. Ammunition Authorized: 5.56, 7.62 ball, handgun up to .45 cal.
- e. Facilities: Target shed, bleachers, tower with PA system, portable latrine, ammo shed.
- f. Firing Line: 50 fighting positions and prone supported or unsupported positions.
- g. Range Flag Pole: At the right rear of the range.
- h. Communications: FM radio 38.85.
- i. Equipment Requirements: Ten pound B-C fire extinguisher, FM and TM for weapons, score cards, AR 385-63, range packet from Range Control, hearing protection.
- j. Restrictions: No automatic or burst fire.
- k. Parking: Across Trainfire Road, Communications vehicle may park on the range.
- l. Remarks:

(1) Aircraft departing Turner Drop Zone may overfly the range. Range Control will call a checkfire when the aircraft are 5 minutes from Time On Target (TOT). The radio must be constantly monitored.

(2) Night fire is authorized. Units must provide target illumination. Pyrotechnics will not be used without permission from Range Control on a daily basis.

C-26. X-Ray II Range.

- a. Location: Trainfire Road at BT 8267 0638.
- b. Description: 25 meter zero/alternate course C qualification.
- c. Targets: M16A1/A2 zero and alternate course C qualification.
- d. Ammunition Authorized: 5.56, 7.62 ball, handgun up to .45 cal.
- e. Facilities: Target shed, bleachers, tower with PA system, portable latrine, ammo shed.
- f. Firing Line: 50 fighting positions and prone supported or unsupported positions.
- g. Range Flag Pole: At the right rear of the range.
- h. Communications: FM radio 38.85.
- i. Equipment Requirements: Ten pound B-C fire extinguisher, TM and FM for weapons, score cards, AR 385-63, range packet from Range Control, hearing protection.
- j. Restrictions: No automatic or burst fire.
- k. Parking: Across Trainfire Road, Communications vehicle may park on the range.
- l. Remarks:
 - (1) Aircraft departing Turner Drop Zone may overfly the range. Range Control will call a checkfire when aircraft are 5 minutes from Time On Target (TOT). Radio must be monitored constantly.
 - (2) Nightfire is authorized. Unit must furnish target illumination. Pyrotechnics will not be used without permission from Range Control on a daily basis.

RANGE AND TRAINING FACILITY DATA SHEETS

C-27. Yankee Range.

- a. Location: Trainfire Road at BT 8257 0628.
- b. Description: 25 meter zero/alternate course C qualification.
- c. Targets: M16A1/A2 zero and alternate course C qualification.
- d. Ammunition Authorized: 5.56, 7.62 ball, handgun up to .45 cal.
- e. Facilities: Target shed, portable latrine, ammo shed, bleachers, tower with PA system.
- f. Firing Line: Twenty eight (28) fighting positions and prone supported or unsupported positions.
- g. Range Flag Pole: At the right rear of the range.
- h. Communications: FM radio 38.85
- i. Equipment Requirements: Ten pound B-C fire extinguisher, FM and TM for weapons, score cards, AR 385-63, range packet from Range Control, hearing protection.
- j. Restrictions: No automatic or burst fire.
- k. Parking: All vehicles, except a Communications vehicle, park across Trainfire Road.
- l. Remarks:

(1) Aircraft departing Turner Drop Zone may overfly the range. Range Control will call a checkfire when aircraft are 5 minutes from Time On Target (TOT). Radio must be constantly monitored.

(2) Nightfire authorized. Unit must provide target illumination. Pyrotechnics will not be used without permission from Range Control on a daily basis.

C-28. Zulu I Range.

- a. Location: Firebreak Road at BT 8162 0869.
- b. Description: Demolition range for charges not to exceed 40 lbs.
- c. Targets: Supplied by unit with approval from the DPW Environmental Division and Range Control.
- d. Demolitions Authorized: Claymore mines, C-4, TNT, Tetrymol, Bangalore Torpedo, Cratering and Shaped charges.
- e. Facilities: Bleachers, covered demo tables, underground observation bunker.
- f. Range Flag Pole: At range entrance.
- g. Communications: FM radio 38.85.
- h. Equipment Requirements: Ten pound B-C fire extinguisher, appropriate FM and TM for demolition exercises conducted, helmets, appropriate equipment for filling craters, AR 385-63, range packet from Range Control, hearing protection.
- i. Parking: All vehicles will park off the range so as to be protected from flying debris.
- j. Remarks:
 - (1) Minimum safe distances as shown in FM 5-20, tables 6-2 and 6-3 will be observed. The OIC will be Sergeant First Class or above. The RSO will be Staff Sergeant or above. Helmets must be worn on explosives ranges.
 - (2) Range Control will be provided a copy of the demolition recon report and DA Form 581 upon check-in.
- k. Restrictions:
 - (1) Demolition firing may be conducted 0800-1700 Monday through Saturday. Firing weight limits or types of explosives may be limited or denied due to adverse weather conditions. Present charge limits are **20** pounds above ground (untamped) and **40** pounds below ground (tamped). A charge is defined as that amount of explosives detonated by one detonator. Charge firings will be no closer than one (1) minute apart. Range Control will be notified prior to each firing. The OIC of the range will maintain a log of each firing to include time, type of explosive, and amount of each charge. The log will be turned in to Range Control upon clearing. The using unit is responsible for clearing and disposing of debris from targets and repairing craters and any other terrain damage.
 - (2) Range gates 5 and 6 on the north and south ends of Firebreak Road and gate 4 on

RANGE AND TRAINING FACILITY DATA SHEETS

the east end of Combat Road will be locked.

(3) All shots will be observed only from the underground observation bunker. Excess personnel will move off the range a safe distance.

(4) THE COVERED OBSERVATION AREA AND/OR TOWER ON TOP OF THE HILL ARE NOT TO BE USED FOR OBSERVING DEMO SHOTS.

(5) Electrical means of firing shots will not be used during electrical storms.

(6) Engineer equipment (if needed to restore the range) will be on site before firing. All firing and target debris will be removed and properly disposed of by the unit.

(7) No more than one (1) Bangalore section will be fired at one time.

(8) Weather and/or atmospheric conditions (a focus) may cause a reduction of charge sizes or closing of the range. Indications a focus exists are:

(a) A steady 5 mph or more wind and/or gusts of greater velocity.

(b) Clear days when layering of smoke or fog is observed.

(c) Cold hazy or foggy mornings.

(d) A day following one with a large temperature extremes between day and night.

(e) High barometric pressures and low temperatures.

C-29. Zulu II Range.

- a. Location: Firebreak Road at BT 8164 0878.
- b. Description: Hand grenade range.
- c. Ammunition Authorized: High explosive grenades. No gas or riot agents.
- d. Facilities: Bleachers, covered observation/holding area, tower.
- e. Firing Line: Two throwing points with knee walls.
- f. Range Flag Pole: At range entrance.
- g. Communications: FM radio 38.85
- h. Equipment Required: Ten pound B-C fire extinguisher, helmets, FM and TM for grenades, AR 385-63, range packet from Range Control, hearing protection.
- i. Parking: All vehicles will park off the range in a protected position.
- j. Remarks:
 - (1) The OIC will be a Sergeant First Class or above. The RSO will be a Staff Sergeant or above.
 - (2) Range Control will be presented a copy of the DA Form 581 upon check in.
 - (3) A practice course must be run before throwing live grenades.
- k. Restrictions:
 - (1) IN THE EVENT OF A DUD GRENADE, CEASE FIRE IMMEDIATELY. NO FURTHER GRENADES WILL BE THROWN IN THAT LANE UNTIL THE DUD CAN BE CLEARED BY EOD PERSONNEL. EOD MUST COME FROM NEW JERSEY. PERSONNEL IN THE THROWING PIT WILL REMAIN UNDERCOVER A MINIMUM FIVE MINUTES PER FM 23-30. NOTIFY RANGE CONTROL IMMEDIATELY. PLOT THE DUD LOCATION AS ACCURATELY AS POSSIBLE ON A SKETCH MAP AND GIVE TO RANGE CONTROL.
 - (2) A road guard will be posted at the range entrance and the gate entering the demo range will be closed and locked.
 - (3) Gloves will not be worn when throwing grenades. Helmets and body armor will be worn.

RANGE AND TRAINING FACILITY DATA SHEETS

C-30. Facility 1: Basic Compass Course.

- a. Location: Training Areas 8, 9A, 9B.
- b. Remarks: Course packet available from Range Control. Requires co-use agreements with other units using the training areas. The course meets the Expert Field Medical Badge requirements.

C-31. Facility 2: Basic Compass Course

- a. Location: Training Areas 7A, 7B, 7C, at BT 7985 0725.
- b. Remarks: Course packet available from Range Control. Requires co-use agreements with other units using the training areas.

C-32. Facility 3: Vehicle Recovery Course

- a. Location: Training Area 6A off Shirley/Lancaster Road at BT 8105 0665.
- b. Remarks: Requires RTS-Maintenance permission before Range Control schedules
- c. Communications will be maintained with Range Control on FM 38.85

C-33. Facility 4: Leadership Reaction Course

- a. Location: Co located with obstacle course off Trainfire Road at BT 8241 0616.
- b. Remarks: Scenarios available from Range Control. Equipment is on site.
- c. Communications will be maintained with Range Control on FM 38.85

C-34. Facility 5: Obstacle/Confidence Course. Approximately 3/4 mile in length. 14 obstacles.

- a. Location: Trainfire Road at BT 8240 0612.
- b. Requirements/Restrictions:
 - (1) Radio communication with Range Control at all times. FM 38.85.
 - (2) Safety NCO at each obstacle.
 - (3) Report injuries immediately to Range Control. Request ambulance through Range Control.
 - (4) This course is intended to be used to build teamwork and confidence. It should not

be used as a test of speed.

(5) Pyrotechnics will not be used.

(6) Notify Range Control of needed repairs or unsafe conditions.

C-35. Facility 6: Rappel Tower

- a. Location: Co-located with obstacle course at BT 8217 0585 off Trainfire Road.
- b. Remarks: Packet available at Range Control.
- c. Communications with Range Control will be maintained on FM 38.85

C-36. Facility 7: Nuclear, Biological Chemical (NBC) chamber.

- a. Location: Training Area 14A at BT 8293 1038. Does not include any portion of the training area except the immediate area around the chamber.
- b. Required Equipment: Water containers with fresh water, radio, FM 21-48, TM 3-42-40-279-10/TM 3-42-40-280-10, Devens RFTA Reg 350-2.
- c. Personnel Requirements: The OIC/NCOIC must be Staff Sergeant or above and have attended NBC school within the past 3 years or in the MOS 74A/54B.
- d. Operation And Safety:
 - (1) Sign for chamber at Range Control, occupy and establish communications.
 - (2) Screen soldiers for medical conditions, which preclude exposure to agent, i.e., contact lenses.
 - (3) Air chamber 30 minutes before requesting clearance by Range Control.
 - (4) Have extra masks and spare parts.
 - (5) Conduct exercise IAW FM 21-48, Appendix C

C-37. Facility 8: Medical Litter Obstacle Course

- a. Location: Attu Road at BT 8279 0996
- b. Remarks:
 - (1) Helicopter Landing Zones (LZ) co-located and must be scheduled through Range Control if used.

RANGE AND TRAINING FACILITY DATA SHEETS

(2) Two identical courses with 10 obstacles each laid out according to Fort Sam Houston specifications.

(3) Radio communications with Range Control is required to operate the course. Request ambulance, in the event of injury, through Range Control.

(4) Report unsafe conditions or needed repairs to Range Control.

(5) Each station requires a Safety NCO.

(6) The course should be used to build confidence and teamwork; not run as a speed event.

C-38. Facility 11: Observed Fire Trainer

a. Location: Dixie Road at BT 8350 0818.

b. Remarks: The Observed Fire Trainer (OFT) is located at Echo Range. The facility uses a electro-mechanical device employing computer driven optics to simulate changeable terrain scenes and the delivery of artillery fire. It has an instructor station with computer, a projector and loudspeaker system, and 30 student observer positions. It can simulate fixed and moving target engagements, varied number of bursts, and up to 4 battery positions. Air, graze, and mixed bursts simulated to scale, provide realistic engagements. Wind drift and direction adds realism to smoke and illumination mission. The using unit is responsible for providing the instructor. Schedule through Range Control.

PARACHUTE AND AIR OPERATIONS

APPENDIX D

D-1. The Drop Zone Safety Officer (DZSO) must be knowledgeable of the following:

- a. Devens RFTA Reg 350-2.
- b. Department of the Army, First SOCOM Regulation 350-2, Airborne Regulations.
- c. Devens RFTA and FAA Letters of Agreement.
- d. The latest drop zone survey (available from Range Control)

D-2. Special Requirements. The DZSO must be on site one (1) hour prior to Time Over Target (TOT). It is the responsibility of the DZSO to block all entrances to the DZ and stop traffic by using barriers and/or road guards. Range Control will warn units operating in adjacent training areas but the DZSO must physically coordinate with them to control traffic. Any vehicle caught on the DZ when jumpers are in the air will come to a complete halt so the jumpers can guide around it.

D-3. Communications.

a. Communications between the DZSO and Range Control and the DZSO and the aircraft will be maintained constantly. Any loss of communications will cause all jumps or drops to cease until communications are reestablished. FM radio communication with Range Control will be on 38.85. Internal unit traffic will not be conducted on this frequency.

b. Pilots should contact Range Control by telephone when planning missions, to get a range and non-participating aircraft update. Prior to entering R-4102A/B airspace, aircraft with FM capabilities must contact Range Control on FM 38.85 for the latest information. The DZSO will obtain range activity information from Range Control and provide it to aircraft without FM capabilities. Range Control is closed at night if there is no troop activity scheduled.

D-4. Ground Traffic. Vehicle traffic off the roads and established trails across the DZ will be held to a minimum. At no time will tracked vehicles operate on the DZ with the exception of using Shoefelt Road and the trails leading into Training Area 7 and the trail along the southern wood line. Any time the ground is soft enough that vehicles will leave ruts, no vehicles will operate off roads and trails, and may be restricted from those in the drop zone. Heavy cargo drops will be canceled when soft ground conditions exist. Training bundle missions that do not require heavy equipment for recovery may go as scheduled. Units causing damage will either repair the damage before clearance is granted or be required to pay for repairs.

D-5. Scheduling. The DZ may be scheduled by means of the units' Monthly Air Activity Schedule, by submitting a Devens RFTA Form 11, or by way of the computerized scheduling system (RFMSS). Scheduling is IAW paragraph 1-4 of this regulation. Cancellations should be sent to Range Control as soon as known. Telephonic notification will be followed up in writing. Follow-up in writing is not necessary if cancellation is by the RFMSS. Air operations and

PARACHUTE AND AIR OPERATIONS

mortar fire will not be scheduled during the same time frame. Range Control will provide a daily air and range schedule to Boston Air Route Traffic Control Center (BARTCC) and Boston Approach Control (BAC).

D-6. Co-use. Agreements may be established between units and participating aircraft. TOT, routes flown, altitudes, and anything else that may pose a hazard to aircraft or troops on the ground will be thoroughly understood by all personnel involved and a written agreement signed by all concerned commanders will be on file with Range Control before co-use will be scheduled or allowed.

D-7. R-4102A/B Airspace. R-4102A extends from ground level up to but not including 2000 feet MSL. R-4102B is from 2,000-3,995 feet MSL. The airspace is activated by Notice to Airmen (NOTAM) for mortar fire and unlighted night parachute jumps only. Other air activities do not activate the airspace but do establish a warning zone to non-participating aircraft. The airspace is considered uncontrolled Visual Flying Rules (VFR) airspace when not activated and VFR procedures apply. When the airspace is activated the only authorized controllers are the FAA, Range Control, and the DZSO. The warning zone encompasses a .5 nautical mile circle from the center of the DZ. This is further amended by Devens RFTA as .5 nm from the perimeter of the DZ. It does not deny or restrict the area to non-participating aircraft but does demand extreme caution when flying through the area.

D-8. Impact Area Entry. Any entry into the impact area to recover jumpers or cargo will not be attempted until coordinated with Range Control.

D-9. Inbound/Outbound Aircraft. The DZ axis is 108 degrees magnetic. Fixed wing aircraft dropping jumpers should make an immediate hard right turn over Whittemore Hill (elev. 455) after the last jumper exits each pass. This will avoid overflight of firing ranges. Aircraft on cargo delivery missions may overfly firing ranges. The DZSO must notify Range Control when the aircraft is five (5) minutes out to allow time to checkfire firing ranges.

D-10. Accidents/Injuries. In the event of accidents or injuries that cannot be handled by the on site medical personnel, contact Range Control immediately. The DZSO will provide Range Control a report of all accidents/injuries upon clearance.

D-11. Helicopter Landing Zones. There are nine (9) established LZ on South Post. Landing is at the discretion of the pilot-in-command. Ground units planning to bring in helicopters must schedule the required LZ and have co-use agreements, if required. GRIDS IN PARENTHESES ARE 1983 DATUM. Established LZ are:

a. LZ 1	BT 8306 1061	(8315 1051)	TRAINING AREA 14A
b. LZ 2	BT 8271 1030	(8293 1037)	TRAINING AREA 14A
c. LZ 3	BT 8233 1013	(8252 1022)	TRAINING AREA 14A
d. LZ 8	BT 7941 0843	(7948 0868)	TRAINING AREA 9A
e. LZ 10	BT 8128 0769	(8140 0805)	TRAINING AREA 10B
f. LZ 13	BT 8128 0666	(8185 0664)	TRAINING AREA 6C
g. LZ 14	BT 7953 0670	(7955 0686)	TRAINING AREA 7C

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h. LZ 15	BT 8066 0645	(8081 0673)	TRAINING AREA 6A
i. LZ 18	BT 8111 0574	(8125 0544)	TRAINING AREA 6E

FIELD/TENT HEATERS SAFETY CHECKLIST

APPENDIX E

E-1. Portable radiant-type space/tent heaters (Potbelly and Yukon) will be operated as follows:

- a. Each operator must be well trained and licensed IAW AR 600-55.
- b. Stovepipe opening flaps of the tent must be securely tied back so they do not come in contact with the stovepipe.
- c. The top section of stovepipe must be higher than the highest point of the tent.
- d. A spark arrestor must be installed if burning solid fuel.
- e. A draft diverter must be installed and secured with guy ropes when burning liquid fuel.
- f. Stovepipes must be straight and tents must be tight so no part of the tent comes in contact with the stovepipe.
- g. The area around the stove must be clear of combustibles for a distance of four (4) feet in all directions.
- h. Fuel lines, connections, cans, and carburetors must be checked daily for leaks. Heaters will not be operated if any leaks are present. The entire system must be provided with containment as outlined in Chapter 3 of this regulation.
- i. Heaters are never to be operated at full capacity. There will be a proper fire extinguisher for every heater in operation, and any tent with a wooden or canvas floor will have the heater placed in a sandbox with at least 3 1/2 inches of sand or dirt in it.
- j. Adequate ventilation must be provided where heaters are operating.
- k. Fuel cans will be located outside the tent as far away as the fuel line allows.
- l. Gasoline will never be used in any heater for any reason.

E-2. Immersion heaters will be operated by licensed persons and IAW TM 5-4540-202-12 & P and TM 10-4500-200-13.

E-3. When operating Herman Nelson type heaters:

- a. The heater will be as far from the tent or structure as the heat ducts permit.
- b. A steel cable or chain a minimum 20 feet in length will be attached to the heater so it can be moved from the vicinity in case of fire.

FIELD/TENT HEATERS SAFETY CHECKLIST

c. A buffer of sandbags five feet high will be maintained on the front and two sides of the heater.

d. A fire guard will be posted at every location where a radiant or Herman Nelson type heater is in operation.

E-4. Unauthorized kerosene heaters are expressly prohibited.

E-5. All soldiers should be made aware of the symptoms of carbon monoxide poisoning.

FIELD/TENT HEATERS SAFETY CHECKLIST

AFRC-FAD-RC-R (MARKS#)

Date

MEMORANDUM THRU (Unit's Higher Headquarters)

FOR (Unit)

SUBJECT: Maneuver/Environmental Damage

1. Your unit has been cited by Range Control for causing the following maneuver or environmental damage:

a. DESCRIPTION:

b. LOCATION:

c. DATE/TIME FOUND:

d. REPORTED BY:

2. On receipt of this memorandum, Natural Resource Management will prepare a detailed financial assessment of the damage. The assessment will be forwarded to the DPT for approval. The Installation Commander (or the appropriate Directorate) may direct that the amount of assessment be recovered from your unit's account.

3. Point of contact is the Range Control OIC, DSN 256-2155/2723, commercial (978) 796-2155/2723.

NAME _____

RANK _____

Range Control Rep

DISTRIBUTION:

DPT

DPW, ATTN: Natural Resource Management

RMO

AFRC-FAD-RC-R

FIELD/TENT HEATERS SAFETY CHECKLIST

AFRC-FAD-RC-R (MARKS#)

Date

MEMORANDUM THRU (Unit's higher headquarters)

FOR (Unit)

SUBJECT: Maneuver/Environmental Damage

1. The attached assessment of damages totaling \$_____ is approved. Reference Memorandum dated_____, subject: Maneuver/ Environmental Damage.
2. The memorandum authorizes (appropriate directorate) to recoup the full amount of the assessment from the appropriate unit account.
3. Funds recouped from maneuver damage assessments will be credited to Devens RFTA for repair/mitigation of damage or the effects resulting from it.
4. Point of contact is (appropriate directorate).

DIRECTOR'S SIGNATURE
Director of Public Works

DISTRIBUTION:
All appropriate directorates
RMO

RANGE OPENING/CLOSING CHECKLIST

APPENDIX F**F-1. OPENING A RANGE**

- a. Certified OIC signs for the range and equipment at Range Control.
- b. Occupy the range. Make sure you are on the right range.
- c. Establish communications with Range Control. Request a Range Inspector to issue targets, inspect the range, and give a briefing on safety and operation of the range.
- d. When the range inspector is satisfied with the range setup, he will notify Range Control that the range may go hot when you call for a hot time.
- e. Raise the red flag after you receive a hot time. Maintain constant monitoring of the radio.

F-2. CLOSING A RANGE

- a. Call Range Control for a cold time. Give the number of rounds fired by type and the number of personnel trained.
- b. After receiving a cold time, take down the red flag.
- c. Remove all targets from the silhouettes and silhouettes from the frames.
- d. Police the range to include along the road. On Trainfire Road this includes across the road up to the fence. Rake the firing line and fill any ruts caused by vehicles. Replace all fighting position covers and place the sandbags on the covers. Sandbags will be refilled and replaced as necessary. Police around and under bleachers. Units will perform spring and fall cleanup of those areas for which they are signed.
- e. Call Range Control and request an inspector to clear the range.
- f. The inspector will notify Range Control when he has cleared the unit off the range.
- g. Remove all equipment, trash, vehicles and personnel from the range. Return anything drawn from Range Control to Range Control.

RANGE OPENING/CLOSING CHECKLIST

F-3. OCCUPYING A TRAINING AREA

- a. The OIC signs for the training area and occupies it.
- b. Establish and maintain communications with Range Control. Provide six-digit grid of CP to Range Control.
- c. Inspect the entire training area and notify Range Control of any discrepancies.
- d. Check the area for dead trees or trees with dead branches that may fall and cause injury or damage.

F-4. CLEARING A TRAINING AREA

- a. The unit signed for the area is responsible for the entire area whether used or not.
- b. Police the area. Remove all wire, signs put up by the unit, trash, and equipment. Police up spent blank brass, smoke canisters and flares. Recover any unspent trip flares. This includes any ambush sites that may be outside the area, such as along roads.
- c. Remove any barriers, engineer tape, and roadblocks, signs put up by unit.
- d. Fill all fighting positions in the area, whether or not your unit placed them there. Do not bury trash or anything else in the holes. Mound them up 12 inches to allow for settling.
- e. Notify Range Control when you are ready for inspection. If the unit departs the area, leave a clearing party. All personnel and equipment must be out of the area before inspection.
- f. The range inspector will notify Range Control that the area is clear.

APPENDIX G

G-1. All commanders of Reserve Component, National Guard and ROTC units will coordinate physical security plans with the local Physical Security Office 72 hours prior to training on South Post.

G-2. When securing weapons in "gun racks", commanders will be responsible for providing armed personnel with live ammunition to protect Category I and II arms, ammunition and explosives (AA&E). No waivers or exceptions will be authorized.

G-3. In accordance with AR 190-13, paragraph 1-5, commanders are responsible for ensuring reasonable security measures are taken to safeguard property that may be vulnerable to criminal acts or other disruptive activities.

G-4. A physical security inspection and audit of AA&E will be conducted when deployed in the field for training to ensure these items are protected.

G-5. Commanders responsible for AA&E will establish a training program for those personnel responsible for guarding stored weapons with live ammunition. Army Regulation 190-11 and AR 190-14 applies.

G-6. Army Regulation 190-11, paragraph 2-10, outlines a training program for responsibility and accountability of AA&E.

G-7. All armed guard personnel will be armed with appropriate weapons and ammunition at the discretion of the commander concerned. The provisions of AR 190-14 apply.

G-8. Only approved locks will be used to secure weapons in the field gun racks. Key controls are listed in AR 190-11, paragraph 3-8.

G-9. Each weapon issued for field training or any other reason will be carried on the person of the individual to whom issued at all times or it will be properly safeguarded and secured. Except during emergencies, weapons will not be entrusted to the custody of any other person except those responsible for the security of operational weapons.

G-10. Chains used to secure racks will be heavy-duty hardened steel, galvanized, of at least 5/16-inch thickness.

G-11. Personnel assigned to guard stored weapons will have available instant communications for security checks and in the event of any unforeseen emergencies.

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Devens Frequency Request Form Letter 6

APPLICATION FOR RADIO FREQUENCY ASSIGNMENT

FROM: COMMANDER, _____

REQUESTING UNIT: _____

COMPLETE ADDRESS: _____

POINT OF CONTACT: _____ PHONE: _____

TO: RANGE CONTROL
AFRC-FAD-RC-R
ATTN: FREQUENCY MANAGER
AYER, MA 01432-5409

1. TYPE OF FREQUENCY: HF _____ FM _____

2. HOURS OF OPERATION: _____

3. DURATION OF REQUIREMENT: _____

4. NUMBER OF FREQUENCIES _____

5. MOBILE: _____ FIXED: _____

6. TRANSMITTER LOCATION: _____

7. RECEIVER LOCATION: _____

8. ANTENNA NAME: _____

9. TRANSMITTER NOMENCLATURE: _____

10. COMPLETE FOR HF ONLY: _____

A. EMISSION: _____

B. POWER _____

C. TRANSMITTER ANTENNA AZIMUTH: _____

D. FREQUENCY RANGE: _____

FREQUENCY MANAGER PHONE: DSN 256-2155, COMM 978-796-2155, FAX 2380

RANGE FIRING, TRAINING AREA AND FACILITY REQUEST

TO: COMMANDER
DEVENS RFTA
ATTN: AFRC-FAD-RC-R
AYER, MA 01432-5409

FROM: COMMANDER

DATE:

(EMAIL):

DATE - START/END	TIME START	TIME END	RANGE/AREA OR FACILITY	WEAPON SYSTEM	TYPE AMMO	PYROTECHNIC TO BE USED

DESCRIPTION OF TRAINING/SPECIAL REQUESTS _____

IS UNIT STAYING OVERNIGHT? YES / NO FIELD OR CANTONMENT ? _____

REQUEST FOR AIR OPERATIONS OR TURNER DROP ZONE

DATE START/END	LOCAL TIME START/END	# OF ACFT AND TYPE	ALTITUDE MIN/MAX	HALO/ STATIC	CARGO HVY/CDS TNG BUNDLES	# OF PASSES

NAME, GRADE, TITLE, TEL # OF POC

PERSONS TRAINING

NAME OF REQUESTOR
(print and sign)

Use this form in conjunction with Devens RFTA Regulation 350-2.

Complete all blocks legibly and request only dates actually used.

Failure to cancel prior will result in a letter of non-utilization.

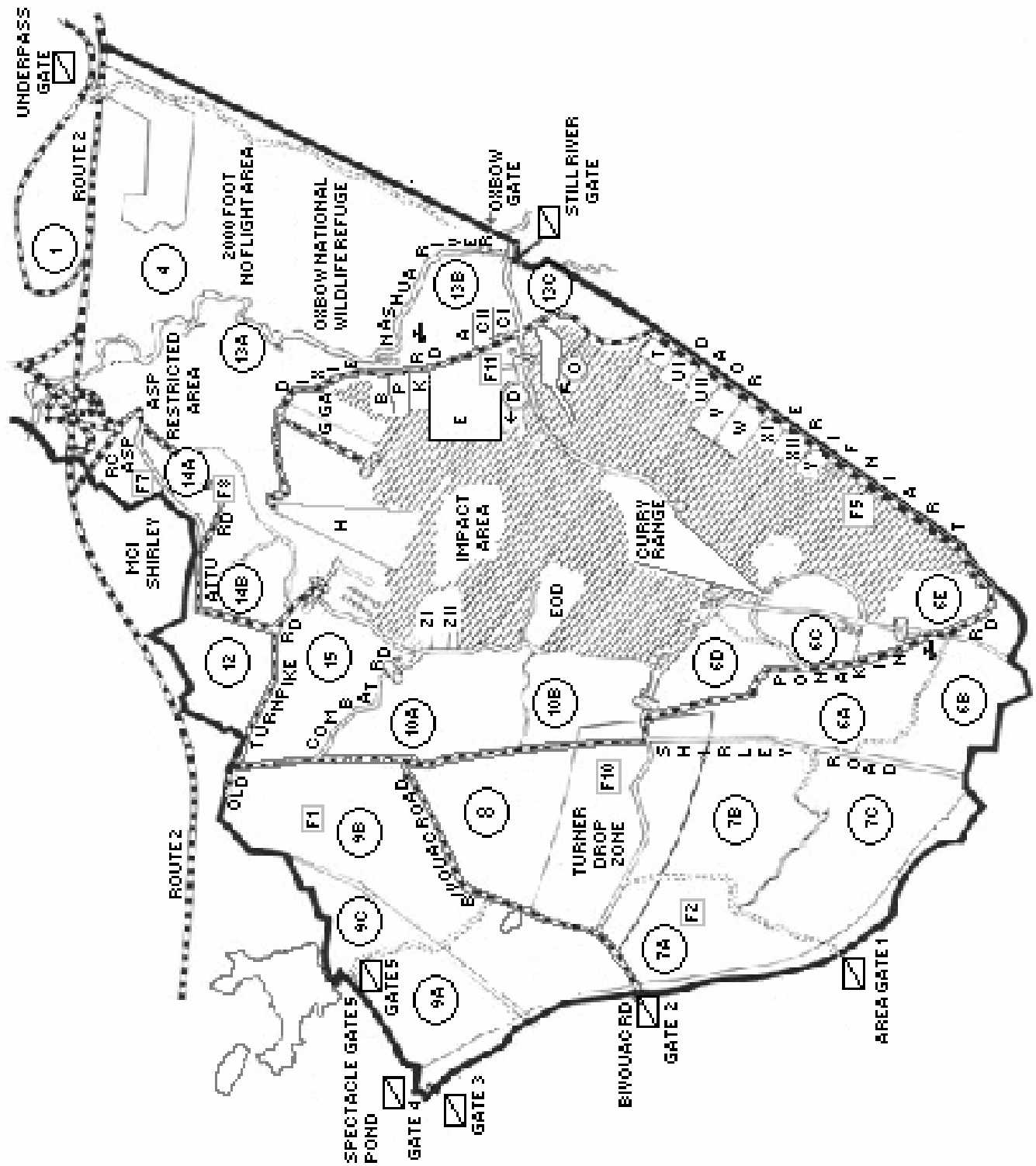
Telephonic cancellations must be followed by written notice.

Incomplete requests will not be scheduled.

Using unit will be the unit actually occupying the area, not the higher or requesting headquarters.

There are no portable toilets in the Training Areas.

Units are responsible for ordering.



DEVENS RESERVE FORCES TRAINING AREA ASSETS

RNG	TYPE OF RANGE	FIRING SQ		REMARKS	OVER 2,000 ACRES
		POINTS	ACRE		
A	PISTOL / SHOTGUN	20		LAW ENFORCEMENT / COMBAT PISTOL	
B	PISTOL/POP-UP	8		PISTOL (COMBAT) POP-UP RANGE	
C1	PISTOL/SHOTGUN	15		ALTERNATE PISTOL QUAL RANGE	
C2	SAW/M60 MACHINEGUN	6		10 METER MACHINE GUN RANGE	
CURRY	800 METER (SOTI)	5		800 METER RANGE (SNIPER)	
D	M203/40MM/MORTAR	2		AT4SMAW, 60MM MORTAR	
E	M16A1/2 POP-UP	16		M16A1/2 QUALIFICATION RANGE	
G	KNOWN DIST 600 YD	60		600 YD KNOWN DISTANCE RANGE	
GA	25M/203TPT/IAD	60		M16 15M, M203 TP & IAD RANGE	
H	800 METER POP-UP	4		M60 MG SAW FIELD FIRE RANGE	
K	M16A1/2 ZEROING 25M	24		M16A1/2 ZERO RANGE	
O	MORTAR 60MM/81MM	3		60 & 80 MM MORTARS	
P	PISTOL	10		PISTOL QUALIFICATION RANGE	
T	MOD C KD QUAL/ZERO	23		ALT COURSE "C" QUAL	
U1	MOD C KD QUAL/ZERO	50		ALT COURSE "C" QUAL	
U2	MOD C KD QUAL/ZERO	50		ALT COURSE "C" QUAL	
V	M16A1/2 POP-UP 300M	16		M16A1/2 QUALIFICATION RANGE	
X1	MOD C KD QUAL/ZERO	50		ALT COURSE "C" QUAL	
X2	MOD C KD QUAL/ZERO	50		ALT COURSE "C" QUAL	
Y1	MOD C KD QUAL/ZERO	28		ALT COURSE "C" QUAL	
Z1	DEMOLITIONS	1			
Z2	HAND GRENADES	2			
TOTAL	FIRING POINTS	506			

TRAINING AREAS ON SOUTH POST DEVENS:**2535 ACRES**

TA	SECTIONS	ACRE	DESCRIPTION
6	A, B, C, D, E	400	BIVOUAC, TACTICAL TRAINING AREA
7	A,B,C, LAND NAV	610	WOODED/LAND NAV ADVANCED
8	A	125	BIVOUAC, TACTICAL TRAINING AREA
9	B,C, LAND NAV	590	9A,B, +C LAND NAVIGATION
9A	A		9A NEW MEDICAL SITE
10	A, B	255	10A MEDICAL SITE
12	A, B	90	BIVOUAC, TACTICAL TRAINING AREA
13	A, B, C	145	BIVOUAC, TACTICAL TRAINING AREA
14	A, B		BIVOUAC, TACTICAL TRAINING AREA
14A	FIELD	160	BIVOUAC, TACTICAL TRAINING AREA
15	A, B	160	BIVOUAC, TACTICAL TRAINING AREA
FAC1	BASIC COMPASS COURSE		MEETS EFMB REQ, TRAINING AREA 9
FAC2	BASIC LAND NAVIGATION		LOCATED IN 7A,B, AND C
FAC3	VEHICLE RECOVERY COURSE		OFF SHIRLEY ROAD, TRAINING AREA 6A
FAC4	LEADERSHIP REACTION COURSE		CO-LOCATED WITH FACILITY 5
FAC5	CONFIDENCE COURSE		1.5 MILE WITH 14 OBSTACLES
FAC6	RAPPEL TOWER		CO-LOCATED WITH FACILITY 5
FAC7	NBC CHAMBER		GAS CHAMBER IN AREA 14
FAC 8	MEDICAL LITTER COURSE		LOCATED IN ATTU ROAD AREA 14
FAC11	OBSERVED FIRE TRAINER		FORWARD OBSERVER TRAINING

DEFINITIONS

APPENDIX I

I-1. Impact Area. The primary danger area for indirect fire weapons that is established for the impact of all rounds. When applied to direct fire weapons, it is the area located between established range limits. The impact area is within the approved surface danger zone.

I-2. Unexploded Ordnance (UXO) Contaminated Area. Any area where there is known or suspected unexploded munitions regardless of type or the means by which they got there. Any area on Devens RFTA South Post may be considered suspect. DO NOT PICKUP OR DISTURB ANY UNIDENTIFIED OBJECT.

I-3. Cookoff. A functioning of any or all of the explosive components due to high temperatures within the weapon.

I-4. Hangfire. A delay in functioning of the firing train of ammunition.

I-5. Misfire. A complete failure to fire, not necessarily hazardous, but, since it cannot readily be distinguished from a delay in functioning or hangfire, must be handled as worst case in accordance with (IAW) procedures for the weapons system.

I-6. Officer in Charge (OIC), Warrant Officer in Charge (WOIC), or Noncommissioned Officer in Charge (NCOIC). The individual in charge of troops or the training of troops in a school situation conducting firing on or using range facilities and having responsibility for the operation of the firing range. Civilians may act as OIC/Range Safety Officer (RSO) of firing ranges if they are qualified and approved to perform such duties by the installation Range Control Officer (RCO). Such qualification normally consists of National Rifle Association certification or installation certification.

I-7. Range Safety Officer. A qualified commissioned or warrant officer, or noncommissioned officer, who is the direct representative of the individual in charge of firing. The RSO is responsible to the OIC for ensuring the adequacy of safety when firing is being conducted and for final determination that, before firing, settings placed on indirect fire weapons and ammunition represent data within prescribed limits. Civilians may act as RSO if qualified IAW Paragraph f above.

I-8. Range Control Officer. A commissioned officer or civilian who supervises and enforces installation range safety and coordinates and schedules range use, maintenance, modification, and installation of ranges and training facilities IAW appropriate regulations and the policies of the commander.

I-9. Range Personnel. Persons designated to assist the Range Control Officer in the discharge of his or her duties.

I-10. Surface Danger Zone (SDZ). That segment of the range area endangered by any type of weapon firing consisting of the target area and impact area.

DEFINITIONS

I-11. R-4102A/B Airspace. That area designated by agreement with the FAA, within which all firing of any projectile with a trajectory exceeding 45 meters (148 feet) and parachute operations must take place. R-4102A is from 0-1999 feet above ground level. R-4102B extends from 2000-3995 feet above ground level.

RAPPEL TOWER CERTIFICATION STATEMENT

APPENDIX J

THE OIC / NCOIC / SAFETY OFFICER, _____
RANK/NAME

OF _____
UNIT AND ORGANIZATION

IS QUALIFIED TO OPERATE THE FACILITY BY VIRTUE OF:

- 1. Attended accredited Air Assault School _____
YEAR/MONTH/LOCATION
- 2. Attended accredited Rappel Master Course _____
YEAR/MONTH/LOCATION
- 3. Attended civilian police Rappelling Course _____
YEAR/MONTH/LOCATION

SIGNATURE

OIC NAME/RANK

Rappel Tower:

	YES	NO
e. Top Platform of the Tower:		
(1) Are there any boards missing?		
(2) Are there any boards rotted to a degree that personnel could possibly fall through?		
(3) Is there anything present that could cause anyone to trip and fall off the tower.		
(4) Are guardrails present where needed?		
(5) Are guardrails sturdy?		
f. Anchor Points:		
(1) Are both primary and secondary anchor points present?		
(2) Are both primary and secondary anchor points independent of each other?		
(3) Are they secured enough to hold the rappellers?		
(4) Is padding present adjacent to each anchor point?		
(5) Will this padding keep the ropes from making contact with any sharp edges?		
g. Rigging and Equipment (Snap links, Ropes, Gloves, etc):		
(1) Is the correct equipment being used?		
(2) Is enough equipment available to replace anything that becomes unserviceable during training?		
(3) Is the tower properly rigged?		

2. GENERAL PRE-OPERATION CHECKS:

a. Equipment:

(1) The OIC and/or the Safety Officer inspects all equipment to include snap links, gloves, rappel ropes and sling ropes prior to each use.

(2) Snap links must be checked for spring pressure, proper locking, rust, nicks, burrs,

lateral gate movement and pressure of gate pin

(3) Gloves must be inspected for holes or tears in friction bearing surfaces, rips or tears in seams and presence of any petroleum products.

(4) Rappelling ropes and sling ropers must be checked for excessive wear, cuts exceeding $\frac{1}{2}$ of one strand, fraying, mildew, presence of petroleum products and any disruption in the strands of the right hand lay of the rope.

(5) Authorized rappelling ropes: 7/16 diameter three strand multi-filament twisted rope with a right hand lay; Kermantic rope with 7/16 inch diameter. Rope will be static in nature with a minimum 4500-pound tensile strength.

(6) All ropes, snap links and gloves found unserviceable are marked, segregated and cannot be used for rappelling.

b. Anchor Points:

(1) Two or more independent anchor points must be used for all rappelling and should be able to withhold 3,000 pounds.

(2) All anchor knots must be a bowline with a half-hitch and there will be a primary and secondary anchor knot on each set of rappel ropes.

(3) All rappelling is done with two ropes or one rope doubled.

(4) When snap links are used for attaching the rappel ropes to an anchor point, they are installed in pairs on each anchoring knot with the gates of the two snap links opposite one another and both gates opening away from the knot.

c. Unit Cadre:

(1) Either the OIC or Safety Officer must be certified graduate of an U.S. Army Air Assault Course for the wall sides of the towers. The OIC or Safety Officer must be Rappel Master qualified and current for the aircraft sides of the tower. Civilian units must have a certified instructor from an accredited Rappel Instructor's Course.

(2) It is required that all other cadre be a graduate of the U.S. Army Air Assault School.

3. DURING OPERATION CHECKS.

a. Rappeller Preparation:

(1) Rappellers must tuck in/secure shirttails, loose clothing and equipment straps to ensure that these items do not get caught in the snap link. Sleeves are worn down.

- (2) MILES Equipment will not be worn during rappelling.
- (3) Helmets with chin straps fastened must be worn during all rappelling operations.
- (4) Heavy leather work gloves must be worn when rappelling.
- (5) Rappel seats must be secured with a square knot and two overland knots. Tails are secured in the rappeller's pockets.
- (6) Rappellers must remove all jewelry, i.e. necklaces, rings, etc., prior to any rappelling operation.
- (7) Rappellers must have their ID card tags in their possession during all rappelling operations.
- (8) Rappellers must receive a safety briefing prior to all rappelling operations.
- (9) Rappellers must be inspected by a Safety Officer/NCO prior to each rappel.

b. Tower Rappelling:

- (1) All cadre on the tower must be secured with a safety line or "Monkey Harness" at all times.
- (2) All cadre must have in their possession a knife capable of cutting rappelling ropes in case a rappeller becomes entangled.
- (3) Rappelling ropes must be of sufficient length to reach the ground with an additional 10 feet on the ground.
- (4) There must be a Safety Officer/NCO at each lane on the tower to hook up and coach rappeller's during their rappel.
- (5) There must be a belay controller for every two belay men and a belay man on each rappel rope. Belay men will wear a helmet and no gloves.
- (6) Cadre must not permit a rappeller to rappel without a verbal statement of "ON BELAY" from the belay man.
- (7) There must be a recovery rope available on the tower in case rappeller's become entangled during their descent.

4. SAFETY BRIEFING

- a. All clothing and equipment will be secured at all times. Helmets with chin strap fastened and heavy duty gloves will be worn at all times by rappellers.

- b. MILES gear will not be worn during rappelling.
- c. Rappel seats will be tied by the soldier and inspected by the cadre before climbing the tower.
- d. Rappellers will climb the tower only when directed by the OIC/Safety Officer. Only one person at a time will be on each landing.
- e. Rappellers will stay in the center of the tower until instructed to move to a rappelling point.
- f. No more than two personnel will be behind each rappelling point.
- g. All cadre on the tower will be secured with a safety line attached to an eyebolt on the floor.
- h. No one will lean or sit on the railings and banisters of the tower.
- i. No one will be allowed within three (3) feet of the edge of the tower without being secured unless moving to a hook up point.
- j. All personnel weighing in excess of 190 pounds will have two turns around the snap link.
- k. While on the tower, all rappellers will maintain eye-to-eye contact with the tower cadre and take all directions from him/her.
- l. The Safety Officer/NCO will check all rappellers prior to descent.
- m. Each rappeller will ensure that they have a belay man on their rope.
- n. The belay man will not wear gloves but will wear a helmet. The belay man will keep both hands on the rope and keep his/her head and eyes on the rappeller at all times.
- o. No soldier will rappel without first yelling "ON RAPPEL" and receiving back from the belay man "ON BELAY".
- p. **ALL RAPPELS WILL BE DONE WITH A DOUBLE ROPE. NO SLACK RAPPELS WILL BE ALLOWED.**
- q. There will be no running on the tower, no eating, drinking or smoking on or near the tower. (Point out the designated smoking point.)
- r. The OIC/Safety Officer explains procedures for entanglement, freezing on the rope, and other potential problems that can occur.

OFFICIAL:

JOHN M. OTTO
LTC, MI
Commanding

DISTRIBUTION:
A thru D